

DIAGNOSTICS

Diagnostic Mode is a tool that can help trouble shoot a start fault. If the remote starter fails to start i.e.: the hood is open the park likes will flash a diagnostic code. i.e.: 5 flashes = start attempt with hood open. If the vehicle does not remote start, count the park light flashes then compare it to the chart below.

PARK LIGHTS	LED FLASHES	DIAGNOSTICS / STATUS
3 SLOW FLASHES	LED's ON SOLID	SYSTEM IS IN SERVICE MODE.
5 SLOW FLASHES	SERIES OF 5 FLASHES	START ATTEMPT WHILE IGNITION IS ON
5 FLASHES	SERIES OF 5 FLASHES	START ATTEMPT WITH HOOD SWITCH OPEN
6 FLASHES	SERIES OF 6 FLASHES	START ATTEMPT WITH BRAKE APPLIED
7 FLASHES	SERIES OF 7 FLASHES	SYSTEM IS IN TACH LOCK OUT (SEE DEALER)
8 FLASHES	SERIES OF 8 FLASHES	THREE START ATTEMPTS WITH NO START

The start fault must be corrected in order for the system to operate correctly. See your dealer for additional trouble shooting or visit www.ultrastarters.com and visit the support page.

KE&RS_INSTALL_2UP.qxd

Keyless Entry & Remote Start

Install Manual



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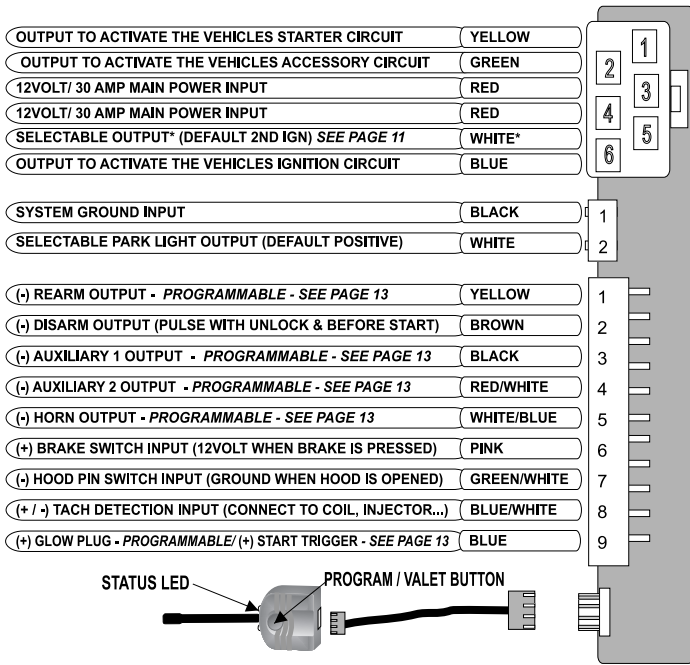
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Keyless Entry & Remote Start

Install Manual



QUICK VIEW WIRE DIAGRAM

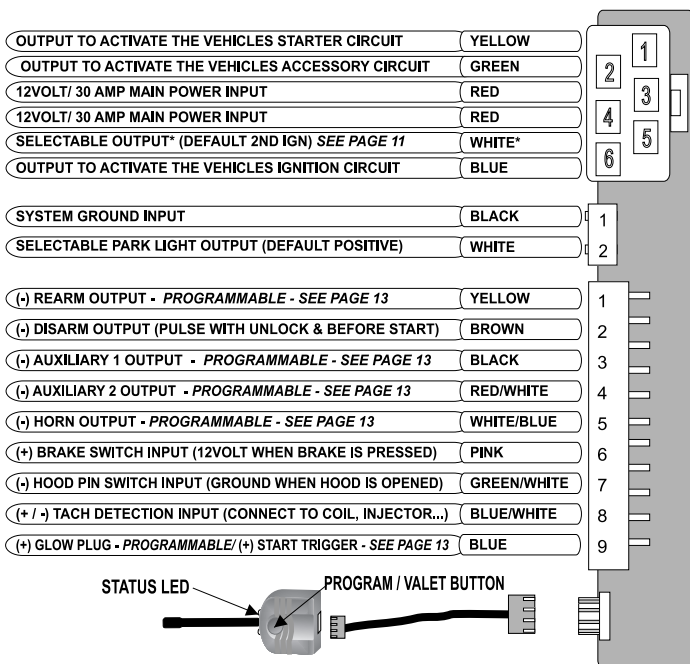


DO NOT INSTALL THIS SYSTEM INTO A MANUAL TRANSMISSION VEHICLE!!

TROUBLE SHOOTING

SYMPTOM	CAUSE/SOLUTION
Vehicle is not remote starting?	<ul style="list-style-type: none"> - Count the park light flashes then see the diagnostics page. - Check battery voltage in the remote. - Make sure you are with-in operating range. - Check if the vehicle anti-theft is activating. - Reprogram the remote's using Transmitter Program Mode.
Vehicle starts then shuts off by itself	<ul style="list-style-type: none"> - Check if the vehicle anti-theft is activating. - Is the starter motor staying on to log? If so, reprogram the tach and try again. - See dealer if problem is not resolved.
The system does not respond to the remote transmitter	<ul style="list-style-type: none"> - Try your second remote. - Check the batteries in the remote. - Reprogram the remote's using Transmitter Program Mode. - Make sure you are with-in operating range.
Doors do not lock Or unlock	<ul style="list-style-type: none"> - Was this optional feature installed? - Have your installer check the door lock connector. - Have bypass or keyless module reprogrammed.
Horn does not honk	<ul style="list-style-type: none"> - Was this optional feature installed? - Try panic mode to see if horn activates. If not, have the systems horn output checked.
Lights on the antenna are flashing	<ul style="list-style-type: none"> - When the doors are locked by the remote the LEDs will flash until the unlock button is pressed. - If you do not want the LEDs to flash have your installer program the LED flashes off.

QUICK VIEW WIRE DIAGRAM



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TROUBLE SHOOTING

SYMPTOM	CAUSE/SOLUTION
Vehicle is not remote starting?	<ul style="list-style-type: none"> - Count the park light flashes then see the diagnostics page. - Check battery voltage in the remote. - Make sure you are with-in operating range. - Check if the vehicle anti-theft is activating. - Reprogram the remote's using Transmitter Program Mode.
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Lights on the antenna are flashing	<ul style="list-style-type: none"> - When the doors are locked by the remote the LEDs will flash until the unlock button is pressed. - If you do not want the LEDs to flash have your installer program the LED flashes off.

DIAGNOSTICS

DIAGNOSTICS CHART

If the remote starter does not activate when the start button is pressed the park lights will flash a diagnostic to indicate what shutdown input has been triggered. For example: *If the start button is pressed the park lights flash 3 times slowly.* Looking at the chart below this would indicate that the system is in Service Mode, simply follow the instructions listed in the owners manual on exiting Service Mode and the remote starter will begin to function as normal.

PARK LIGHTS	STATUS LED	DIAGNOSTIC CODE
3 Slow Flashes	LEDs "ON" Solid	System Is In Service Mode
4 Slow Flashes	Series of 4 Flashes	Not in Reservation Mode
5 Flashes	Series of 5 Flashes	Hood Open
5 Slow Flashes	Series of 5 Flashes	Ignition On During Start Attempt
6 Flashes	Series of 6 Flashes	Brake Pedal Shutdown
7 Flashes	Series of 7 Flashes	Tach Lock-Out
8 Flashes	Series of 8 Flashes	3 Start Attempts Without Starting

TO ENTER DIAGNOSTIC MEMORY

Step 1- Turn the ignition ON then OFF. Press and release the Program Button.
Step 2- The system will respond with three park light flashes and the HORN (optional) will honk the same number of times as the events in memory.
 ****Maximum four events, four honks****
NOTE: If the HORN does not honk, there are no events in memory.
Step 3- Press the Program Button once to view the last shut down code. The HORN (optional) will honk once to confirm code one.
 ****If the HORN does not honk, there are no codes in memory.****
Step 4- The LEDs on the antenna will flash a code corresponding to a shut down trigger. Press the Program Button again for the second code.
 ****The HORN will honk twice to confirm code two three time for code three...****
Step 5- To Clear Diagnostic Memory. While in Diagnostic Mode press and hold the Program Button for five seconds. The park lights will flash and the HORN (optional) will honk once.
 ****Once diagnostic memory has 4 shutdown events in memory, the system will not record any further shutdown events until the system memory has been cleared.****

LED Flashes	Diagnostic
5 Flashes	The system was shutdown by the brake switch input
6 Flashes	The system was shutdown by the hood pin input
7 Flashes	The system did not detect the Tach signal.
8 Flashes	The system made 3 start attempts without starting

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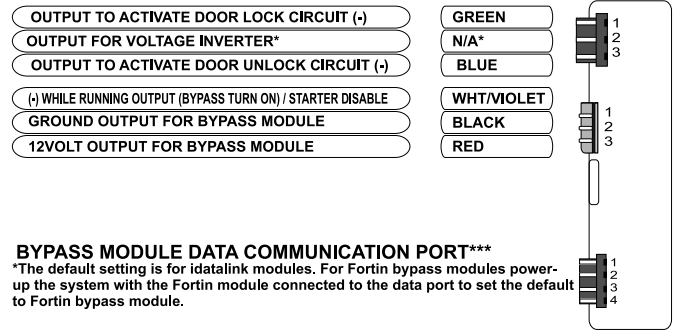
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QUICK VIEW WIRE DIAGRAM

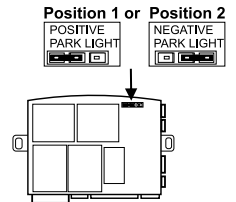


BYPASS MODULE DATA COMMUNICATION PORT***
 *The default setting is for idatalink modules. For Fortin bypass modules power-up the system with the Fortin module connected to the data port to set the default to Fortin bypass module.

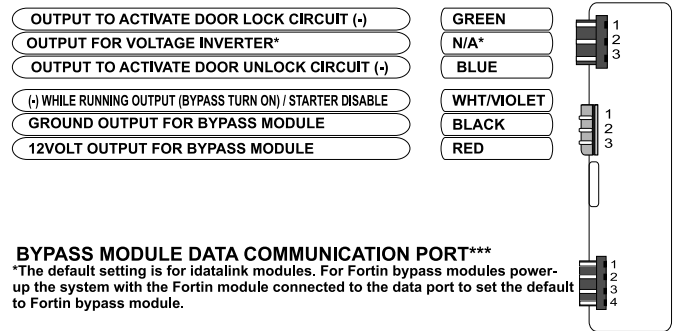
* THE CENTER PIN OF THE KEYLESS CONNECTOR IS LOW CURRENT AND IS DESIGNED TO SUPPLY POWER TO DOOR LOCK MODULES (DO NOT CONNECT TO RELAYS) OVERLOADING THIS OUTPUT WILL DAMAGE THE MODULE!
 *** FOR USE WITH COMPATIBLE BYPASS MODULES ONLY.

SELECTABLE PARK LIGHT OUTPUT

BY DEFAULT THE SYSTEM COMES WITH THE PARK LIGHT JUMPER SET FOR POSITIVE PARK LIGHT OUTPUT. TO CHANGE THE SYSTEM TO A NEGATIVE PARK LIGHT OUTPUT, PLACE THE JUMPER IN THE NEGATIVE PARK LIGHT POSITION SHOWN IN THE DIAGRAM. (Position 2)



QUICK VIEW WIRE DIAGRAM

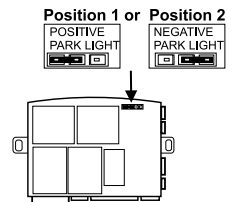


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QUICK VIEW PROGRAMMING

ENTERING PROGRAM MODE

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
- 2 - Press and release the Program Switch located on the antenna 1 time.
*The Horn will chirp and the park light will turn on to confirm that the system has entered Program Mode.
- 3 - Select the Program Menu by pressing the button that corresponds to the desired Program Menu.

Press Lock  MENU 1	Press Unlock  MENU 2	Press Start  MENU 3	Press  MENU 4
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- 4 - Press and Release the Program Switch to advance through the settings.
*The horn will chirp and LEDs flash the same number of times as the selected setting.
- 5 - Press and hold the Program Switch to change the setting.
(The horn will honk and the park lights will flash to indicate the option selected)
- 6 - To exit Program Mode, turn the key off.
(Confirmed by Long Horn Chirp)





SYSTEM RESET

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
- 2 - Press and **RELEASE** the Program Switch 1 time.
(Horn will chirp and the parking lights will turn on to confirm program mode has been entered).
- 3 - Press and **HOLD** the Program Switch for 5 seconds or until the Horn Chirps 3 times.
- 4 - Turn the ignition key **OFF** to exit.

QUICK VIEW PROGRAMMING

ENTERING PROGRAM MODE

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
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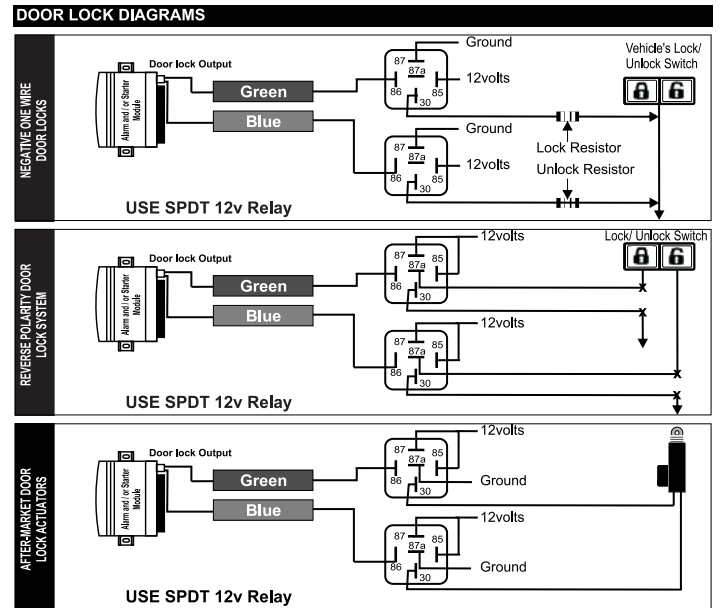
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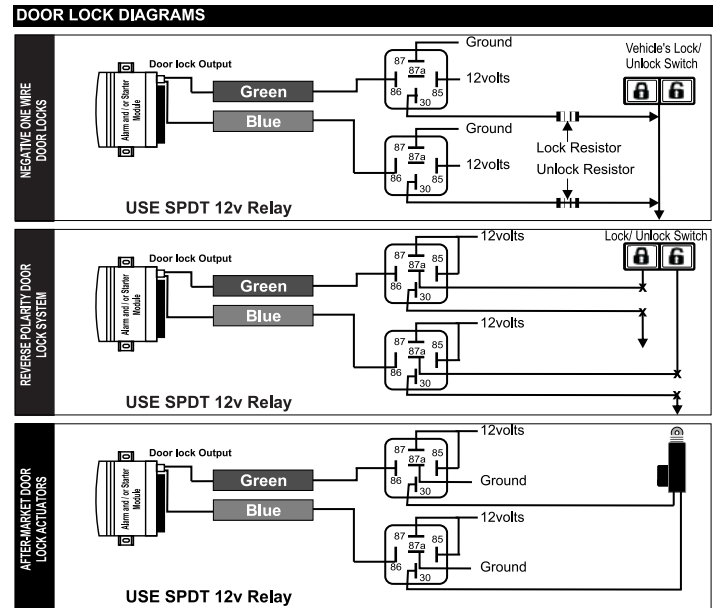
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RELAY DIAGRAMS

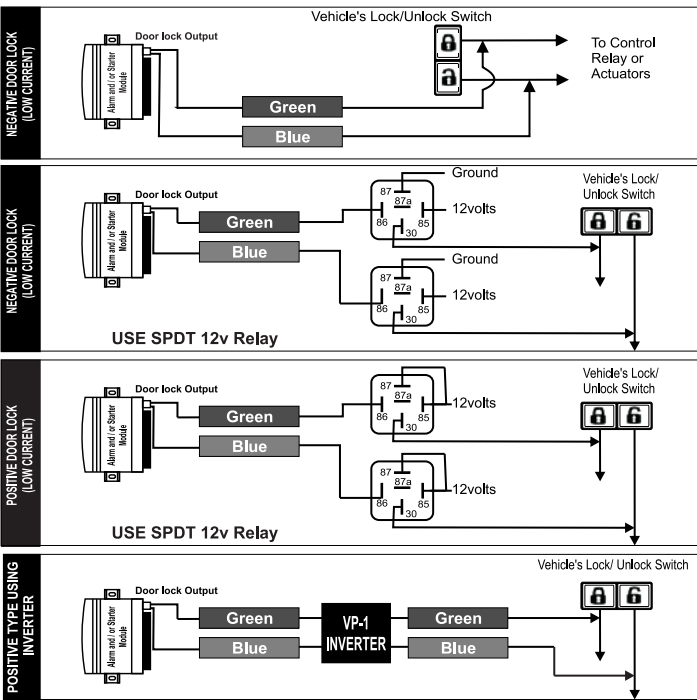


RELAY DIAGRAMS



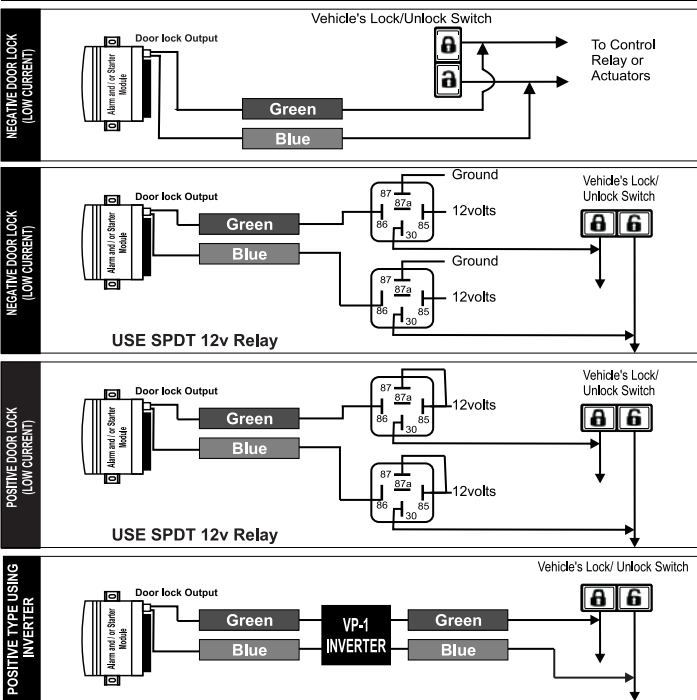
RELAY DIAGRAMS

DOOR LOCK DIAGRAMS



RELAY DIAGRAMS

DOOR LOCK DIAGRAMS



QUICK VIEW PROGRAMMING



PROGRAM MODE 1 - see page 16 for detailed instructions

SETTING #	LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1	OPTION 2	OPTION 3
				1 CHIRP	2 CHIRPS	3 CHIRPS
1		BLUE & GREEN (DOOR LOCK HARNESS)	IGNITION AUTO-LOCK	IGNITION AUTO-LOCK / UNLOCK	IGNITION AUTO-LOCK ONLY	IGNITION AUTO-LOCKS DISABLED
2		WHITE/BLUE (# PIN CONNECTOR)	HORN SETTINGS	HORN CHIRPS DISABLED	HORN CHIRPS ENABLED	
3		BLUE & GREEN (DOOR LOCK HARNESS)	DOOR LOCK PULSE OPTIONS	DOUBLE UNLOCK & SINGLE LOCK	DOUBLE LOCK & SINGLE UNLOCK	SINGLE LOCK & SINGLE UNLOCK
4		BLUE & GREEN (DOOR LOCK HARNESS)	DOOR LOCK / UNLOCK PULSES	0.25 SEC PULSES	3 SEC PULSES	0.72 SEC PULSES
5		BLACK (# PIN CONNECTOR)	AUX OUTPUT 1	(-) ACCESSORY OUTPUT (#) ACTIVATES CAR FINDER	(-) START OUTPUT (#) ACTIVATES CAR FINDER	AUX CHANNEL (#)
6		RED/WHITE (# PIN CONNECTOR)	AUX OUTPUT 2	DOME LIGHT OUTPUT	2ND UNLOCK	TRUNK RELEASE



PROGRAM MODE 2 - see page 19 for detailed instructions

SETTING #	LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1	OPTION 2	OPTION 3
				1 CHIRP	2 CHIRPS	3 CHIRPS
1		N/A	VALET SETTINGS	SECURE VALET 15 SECONDS	STANDARD VALET 5 SECONDS	
2		WHITE (# PIN CONNECTOR)	PARK LIGHT OUTPUT	30 SECONDS ON DISARM	NORMAL OPERATION	
3		WHITE/BLUE (# PIN CONNECTOR)	HORN TIMING	5MS PULSED OUTPUT	50MS PULSED OUTPUT	10MS PULSED OUTPUT

QUICK VIEW PROGRAMMING



PROGRAM MODE 1 - see page 16 for detailed instructions

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				1 CHIRP	2 CHIRPS	3 CHIRPS
1		BLUE & GREEN (DOOR LOCK HARNESS)	IGNITION AUTO-LOCK	IGNITION AUTO-LOCK / UNLOCK	IGNITION AUTO-LOCK ONLY	IGNITION AUTO-LOCKS DISABLED
2		WHITE/BLUE (# PIN CONNECTOR)	HORN SETTINGS	HORN CHIRPS DISABLED	HORN CHIRPS ENABLED	
3		BLUE & GREEN (DOOR LOCK HARNESS)	DOOR LOCK PULSE OPTIONS	DOUBLE UNLOCK & SINGLE LOCK	DOUBLE LOCK & SINGLE UNLOCK	SINGLE LOCK & SINGLE UNLOCK
4		BLUE & GREEN (DOOR LOCK HARNESS)	DOOR LOCK / UNLOCK PULSES	0.25 SEC PULSES	3 SEC PULSES	0.72 SEC PULSES
5		BLACK (# PIN CONNECTOR)	AUX OUTPUT 1	(-) ACCESSORY OUTPUT (#) ACTIVATES CAR FINDER	(-) START OUTPUT (#) ACTIVATES CAR FINDER	AUX CHANNEL (#)
6		RED/WHITE (# PIN CONNECTOR)	AUX OUTPUT 2	DOME LIGHT OUTPUT	2ND UNLOCK	TRUNK RELEASE



PROGRAM MODE 2 - see page 19 for detailed instructions

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				1 CHIRP	2 CHIRPS	3 CHIRPS
1		N/A	VALET SETTINGS	SECURE VALET 15 SECONDS	STANDARD VALET 5 SECONDS	
2		WHITE (# PIN CONNECTOR)	PARK LIGHT OUTPUT	30 SECONDS ON DISARM	NORMAL OPERATION	
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QUICK VIEW PROGRAMMING

PROGRAM MODE 3 - see page 21 for detailed instructions

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	WHITE (6 PIN CONNECTOR)	SELECTABLE RELAY	2ND STARTER	2ND ACCESSORY	2ND IGNITION
2	BLUE & GREEN (DOOR LOCK CONNECTOR)	SPECIAL DOOR LOCK OPTIONS	UNLOCK BEFORE / LOCK AFTER START	LOCK AFTER STARTER SHUT OFF	NO ADDITIONAL PULSES
3	BLUE (9 PIN CONNECTOR)	GLOW PLUG/ START TRIGGER	(+) GLOW PLUG OR 20 SECONDS DELAY	POSITIVE TRIGGER TO START (1 PULSE)	GAS/ POSITIVE GLOW PLUG
4	YELLOW (9 PIN CONNECTOR)	RE-ARM OPTIONS	PULSE WITH LOCK	PULSE AFTER START (DEFROST / SEAT)	PULSE WITH LOCK & AFTER SHUTDOWN
5	N/A	RUNTIME	4 MINUTE RUNTIME	45 MINUTE RUNTIME	15 MINUTE RUNTIME
6	N/A	REMOTE START ACTIVATION	PRESS BUTTON TWICE TO START	PRESS BUTTON ONCE TO START	
7	N/A	LED FLASHES	LEDS DO NOT FLASH WHEN LOCKED/ ARMED	LEDS FLASH WHEN LOCKED/ ARMED	

PROGRAM MODE 4 - see page 23 for detailed instructions

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	BLUE / WHITE (6 PIN CONNECTOR)	TACH OPTIONS	HYBRID MODE 1	HYBRID MODE TWO	AUTO TACH / TACHLESS
2	N/A	ADJUST FOR OVER-CRANK	INCREASES TACH SETTING BY 10%		
3	N/A	ADJUST FOR UNDER-CRANK	DECREASE TACH SETTING BY 10%		
4	N/A	TACH WAIT SETTINGS	300ms TACH CHECK DELAY	750ms TACH CHECK DELAY	NO TACH CHECK DELAY
5	N/A	BYPASS MODULE	FORTIN BYPASS	IDATA LINK BYPASS	

TIP- Power up the unit with the bypass module connected to set it for Fortin bypass module.

QUICK VIEW PROGRAMMING

PROGRAM MODE 3 - see page 21 for detailed instructions

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	WHITE (6 PIN CONNECTOR)	SELECTABLE RELAY	2ND STARTER	2ND ACCESSORY	2ND IGNITION
2	BLUE & GREEN (DOOR LOCK CONNECTOR)	SPECIAL DOOR LOCK OPTIONS	UNLOCK BEFORE / LOCK AFTER START	LOCK AFTER STARTER SHUT OFF	NO ADDITIONAL PULSES
3	BLUE (9 PIN CONNECTOR)	GLOW PLUG/ START TRIGGER	(+) GLOW PLUG OR 20 SECONDS DELAY	POSITIVE TRIGGER TO START (1 PULSE)	GAS/ POSITIVE GLOW PLUG
4	YELLOW (9 PIN CONNECTOR)	RE-ARM OPTIONS	PULSE WITH LOCK	PULSE AFTER START (DEFROST / SEAT)	PULSE WITH LOCK & AFTER SHUTDOWN
5	N/A	RUNTIME	4 MINUTE RUNTIME	45 MINUTE RUNTIME	15 MINUTE RUNTIME
6	N/A	REMOTE START ACTIVATION	PRESS BUTTON TWICE TO START	PRESS BUTTON ONCE TO START	
7	N/A	LED FLASHES	LEDS DO NOT FLASH WHEN LOCKED/ ARMED	LEDS FLASH WHEN LOCKED/ ARMED	

PROGRAM MODE 4 - see page 23 for detailed instructions

SETTING # LED FLASHES	WIRE COLOR	SETTING DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	BLUE / WHITE (6 PIN CONNECTOR)	TACH OPTIONS	HYBRID MODE 1	HYBRID MODE TWO	AUTO TACH / TACHLESS
2	N/A	ADJUST FOR OVER-CRANK	INCREASES TACH SETTING BY 10%		
3	N/A	ADJUST FOR UNDER-CRANK	DECREASE TACH SETTING BY 10%		
4	N/A	TACH WAIT SETTINGS	300ms TACH CHECK DELAY	750ms TACH CHECK DELAY	NO TACH CHECK DELAY
5	N/A	BYPASS MODULE	FORTIN BYPASS	IDATA LINK BYPASS	

TIP- Power up the unit with the bypass module connected to set it for Fortin bypass module.

TRANSMITTER PROGRAMMING

The system can lean up to 4 different remote's. Each remote to be used **MUST** be programmed together during the same sequence. For security, when a new remote is programmed all previous remote's are deleted. Please see remote operation chart for information on using Second Car / Pad Lock Operations. ENTERING REMOTE PROGRAM MODE

- 1 - Turn the Ignition Key - ON/OFF ON/OFF ON (Leaving the key ON)
- 2 - HOLD the program switch, the HORN will chirp ONCE and the park lights will turn on. (If the HORN does not chirp repeat step 1) CONTINUE TO HOLD until the HORN chirps 5 times
- 3 - 1 chirp confirms program mode entered followed by 5 chirps confirming transmitter program mode

PROGRAMMING REMOTE'S

- 4 - Press & Release LOCK button on 1st Remote to be Programmed for Normal Operation *If remote(s) are to be programmed for "PADLOCK" (AM 1way Only) skip and goto step 6*
- 5 - HORN will Chirp 1 time to confirm remote has been programmed (If the HORN does not chirp press button again)

REPEAT STEP 4 IF A SECOND REMOTE IS TO BE PROGRAMMED FOR NORMAL OPERATION

- 6 - Press & Release BUTTON 4 on Remote to be Programmed for 2ND CAR OR PAD LOCK
- 7 - HORN will Chirp 1 time to confirm remote has been programmed (If the HORN does not chirp press button again)

To program 2nd car operation on 2way models enter transmitter program mode and turn the # icon on then program the transmitter to the vehicle. If the # icon is on the remote is in 2nd car operation

REPEAT STEP 6 IF A SECOND REMOTE IS TO BE PROGRAMMED FOR 2ND CAR / PADLOCK OPERATION

- 8 - Turn ignition key OFF to exit remote program mode when all required remote's have been programmed.

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PROGRAM MODE

TACH / TACHLESS & HYBRID MODES

SETTING 5- BYPASS SELECTION
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 1 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 – FORTIN- Operation of Fortin bypass modules
 2 CHIRPS → SETS OPTION 2 – IDATA- Operation of idata bypass modules.

TIP- Power up the unit with the bypass module connected to set it for Fortin bypass module.

<p>SETTING 1 HYBRID VEHICLE 1</p>	<p>Connect the Tach wire to a Fuel Injector, Coil Pack, Coil or Crank Position Sensor. The system will Tach Learn the first time the car is started. The start wire is the trigger for the system to learn. (See Tach Learning)</p> <p>Once the system has remote started the Tach input will not be monitored for the programmed runtime.</p>
<p>SETTING 2 HYBRID VEHICLE 2</p>	<p>Tach wire connection is not necessary. When the remote starter is activated the system will power up normally with the exception of the start output. The start output will stay on for a preset time of 2 seconds then shut off.</p> <p>This setting must be programmed before the system can be remote started.</p>
<p>SETTING 3 AUTO TACH/ TACHLESS LEARNING (DEFAULT)</p>	<p>For Tach Mode connect the Tach wire to a Fuel Injector, Coil Pack, Coil or Crank Position Sensor. The system will Tach Learn the first time the car is started. The start wire is the trigger for the system to learn. If the vehicle does not have a start wire use the Manual Tach Learn procedure. (See Tach Learning)</p> <p>In Tachless Mode the same procedure is followed except a connection to a Tach source is not required.</p>

PROGRAM MODE

TACH / TACHLESS & HYBRID MODES

SETTING 5- BYPASS SELECTION
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 1 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 – FORTIN- Operation of Fortin bypass modules
 2 CHIRPS → SETS OPTION 2 – IDATA- Operation of idata bypass modules.

TIP- Power up the unit with the bypass module connected to set it for Fortin bypass module.

<p>SETTING 1 HYBRID VEHICLE 1</p>	<p>Connect the Tach wire to a Fuel Injector, Coil Pack, Coil or Crank Position Sensor. The system will Tach Learn the first time the car is started. The start wire is the trigger for the system to learn. (See Tach Learning)</p> <p>Once the system has remote started the Tach input will not be monitored for the programmed runtime.</p>
<p>SETTING 2 HYBRID VEHICLE 2</p>	<p>Tach wire connection is not necessary. When the remote starter is activated the system will power up normally with the exception of the start output. The start output will stay on for a preset time of 2 seconds then shut off.</p> <p>This setting must be programmed before the system can be remote started.</p>
<p>SETTING 3 AUTO TACH/ TACHLESS LEARNING (DEFAULT)</p>	<p>For Tach Mode connect the Tach wire to a Fuel Injector, Coil Pack, Coil or Crank Position Sensor. The system will Tach Learn the first time the car is started. The start wire is the trigger for the system to learn. If the vehicle does not have a start wire use the Manual Tach Learn procedure. (See Tach Learning)</p> <p>In Tachless Mode the same procedure is followed except a connection to a Tach source is not required.</p>

TACH / TACHLESS LEARNING

AUTO TACH/ TACHLESS LEARNING

 Start the vehicle with the ignition key.  2 CHIRPS
4 CHIRPS Horn/ Siren will chirp to confirm that the Tach/ Tachless has been programmed.

To Tach/ Tachless Learn the system simply start the vehicle with the ignition key. To confirm that a proper Tach signal has been programmed the system will chirp the Horn/ Siren and flash the park lights two times. If the tach wire is not connected the park lights will flash and the horn will chirp 4 times to indicate Tachless Mode. **NEW- If the vehicle does not have a 12 volt starter wire let it run for 30-35 seconds. The LEDs will flash rapidly if a proper tach is detected then turn off when the tach programs.**

*****The system must be Tach Learned before remote starting*****

MANUAL TACH/ TACHLESS LEARNING

 Hold the brake  Start the vehicle with the ignition key.  2 CHIRPS
4 CHIRPS Horn/ Siren will chirp to confirm that the Tach/ Tachless has been programmed.

Press and Hold the brake pedal, Start the vehicle with the key then press and release the program button then hold for 5 seconds. To confirm that a proper Tach signal has been programmed the system will chirp the Horn/ Siren and flash the park lights two times. If the tach wire is not connected the park lights will flash and the horn will chirp 4 times to indicate Tachless Mode. If the Tach is not learned when the start button is pressed the park lights will flash 7 times.

*****The system must be Tach Learned before remote starting*****

TACH NOTES

* If Tach does not learn check for proper connection on the starter wire, ignition wire and at the Tach connection . If the connections are good, reset the system and tr y again.
 -For best results connect the Tach wire to a fuel injector wire.

* If the vehicle does not start when the remote starter is activated, the park lights will flash a diagnostic code. (See Diagnostic Chart).

**If the vehicle still does not start, check all connections and check for a factory installed Anti-Theft system. If the Anti-Theft prevents the vehicle from starting the remote start will flash the park lights 7 times. The system does not have to be Tach learned if this happens, simply start the vehicle with the key and let it run for 5 seconds then turn off.

TACH / TACHLESS LEARNING

AUTO TACH/ TACHLESS LEARNING

 Start the vehicle with the ignition key.  2 CHIRPS
4 CHIRPS Horn/ Siren will chirp to confirm that the Tach/ Tachless has been programmed.

To Tach/ Tachless Learn the system simply start the vehicle with the ignition key. To confirm that a proper Tach signal has been programmed the system will chirp the Horn/ Siren and flash the park lights two times. If the tach wire is not connected the park lights will flash and the horn will chirp 4 times to indicate Tachless Mode. **NEW- If the vehicle does not have a 12 volt starter wire let it run for 30-35 seconds. The LEDs will flash rapidly if a proper tach is detected then turn off when the tach programs.**

*****The system must be Tach Learned before remote starting*****

MANUAL TACH/ TACHLESS LEARNING

 Hold the brake  Start the vehicle with the ignition key.  2 CHIRPS
4 CHIRPS Horn/ Siren will chirp to confirm that the Tach/ Tachless has been programmed.

Press and Hold the brake pedal, Start the vehicle with the key then press and release the program button then hold for 5 seconds. To confirm that a proper Tach signal has been programmed the system will chirp the Horn/ Siren and flash the park lights two times. If the tach wire is not connected the park lights will flash and the horn will chirp 4 times to indicate Tachless Mode. If the Tach is not learned when the start button is pressed the park lights will flash 7 times.

*****The system must be Tach Learned before remote starting*****

TACH NOTES

* If Tach does not learn check for proper connection on the starter wire, ignition wire and at the Tach connection . If the connections are good, reset the system and tr y again.
 -For best results connect the Tach wire to a fuel injector wire.

* If the vehicle does not start when the remote starter is activated, the park lights will flash a diagnostic code. (See Diagnostic Chart).

**If the vehicle still does not start, check all connections and check for a factory installed Anti-Theft system. If the Anti-Theft prevents the vehicle from starting the remote start will flash the park lights 7 times. The system does not have to be Tach learned if this happens, simply start the vehicle with the key and let it run for 5 seconds then turn off.

SYSTEM WIRING DETAILS

6-PIN CONNECTOR

PIN 1	YELLOW	STARTER OUTPUT	This wire will test 0V with the key off, in the Accessory position and when the Ignition is in the on. This wire is 12volts during the start/ crank position <i>only</i> .
PIN 2	GREEN	HEATER OUTPUT	This wire will test 0V when key is off, 12volts in the ACC and IGN positions and off during start/ crank position
PIN 3	RED	12v INPUT 30A	This input supplies the 12volt power for the Accessory and Starter outputs.
PIN 4	RED	12v INPUT 30A	This input supplies the 12volt power for the Accessory and Starter outputs.
PIN 5	BLUE	IGNITION OUTPUT	This wire will test 0V in the off and Accessory positions the switch to 12volts in the Ignition and Start positions.
PIN 6	WHITE	SELECTABLE OUTPUT	2nd Ignition, Accessory or Start output. Programmable. Note: This output does not switch to default when the system is reset.

2-PIN CONNECTOR

PIN 1	BLACK	SYSTEM GROUND	Connect to chassis ground.
PIN 2	WHITE	PARK LIGHT OUTPUT (SELECTABLE)	Connect to the vehicles positive Park light wire or change the jumper and connect to the vehicle negative Park light wire. The default position of the jumper is Positive Park Light Output .

4 PIN AUXILIARY SENSOR CONNECTOR

PIN 1	GREEN	(-) LOCK OUTPUT	Connect to lock wire from the switch on vehicles with a negative type switch. **LOW CURRENT ONLY**
PIN 2	N / A	12V + DOOR LOCK INVERTER	This output will supply 12volts for a plug-in type door lock module. Do not use this input to power-up relays **LOW CURRENT ONLY**
PIN 3	BLUE	(-) UNLOCK OUTPUT	Connect to unlock wire from the switch on vehicles with a negative type switch. **LOW CURRENT ONLY**

SYSTEM WIRING DETAILS

6-PIN CONNECTOR

PIN 1	YELLOW	STARTER OUTPUT	This wire will test 0V with the key off, in the Accessory position and when the Ignition is in the on. This wire is 12volts during the start/ crank position <i>only</i> .
PIN 2	GREEN	HEATER OUTPUT	This wire will test 0V when key is off, 12volts in the ACC and IGN positions and off during start/ crank position
PIN 3	RED	12v INPUT 30A	This input supplies the 12volt power for the Accessory and Starter outputs.
PIN 4	RED	12v INPUT 30A	This input supplies the 12volt power for the Accessory and Starter outputs.
PIN 5	BLUE	IGNITION OUTPUT	This wire will test 0V in the off and Accessory positions the switch to 12volts in the Ignition and Start positions.
PIN 6	WHITE	SELECTABLE OUTPUT	2nd Ignition, Accessory or Start output. Programmable. Note: This output does not switch to default when the system is reset.

2-PIN CONNECTOR

PIN 1	BLACK	SYSTEM GROUND	Connect to chassis ground.
PIN 2	WHITE	PARK LIGHT OUTPUT (SELECTABLE)	Connect to the vehicles positive Park light wire or change the jumper and connect to the vehicle negative Park light wire. The default position of the jumper is Positive Park Light Output .

4 PIN AUXILIARY SENSOR CONNECTOR

PIN 1	GREEN	(-) LOCK OUTPUT	Connect to lock wire from the switch on vehicles with a negative type switch. **LOW CURRENT ONLY**
PIN 2	N / A	12V + DOOR LOCK INVERTER	This output will supply 12volts for a plug-in type door lock module. Do not use this input to power-up relays **LOW CURRENT ONLY**
PIN 3	BLUE	(-) UNLOCK OUTPUT	Connect to unlock wire from the switch on vehicles with a negative type switch. **LOW CURRENT ONLY**

PROGRAM MODE

ENTERING PROGRAM MODE 4

IGNITION KEY ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH Press and release 1 time	HORN CHIRP 1 CHIRP Confirming Program Mode	REMOTE BUTTON Press Button to Select Menu 4
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SETTING 1- TACH OPTIONS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP SETS OPTION 1 - HYBRID 1- The remote starter will ignore the Tach input after the remote start activates.
- 2 CHIRPS SETS OPTION 2 -HYBRID 2- No Tach connection required. Starter wire defaults at 2 seconds.
- 2 CHIRPS SETS OPTION 3 -AUTO TACH LEARN- The system will automatically learns the vehicles Tach. Tachless on TL Models. (DEFAULT)

SETTING 2-ADJUST FOR UNDER-CRANK
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP Each time the HORN chirps the Tach setting is reduced by 10%

SETTING 3-ADJUST FOR OVER-CRANK
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP Each time the HORN chirps the Tach setting is increased by 10%

SETTING 4- TACH WAIT
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 1 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP SETS OPTION 1 - 300ms- The system will wait 300ms before starting to monitor the Tach input.
- 2 CHIRPS SETS OPTION 2 - 750ms- The system will wait 750ms before starting to monitor the Tach input.
- 3 CHIRPS SETS OPTION 3 - NO WAIT- The system will monitor the Tach as soon as the vehicle has remote started. (DEFAULT)

PROGRAM MODE

ENTERING PROGRAM MODE 4

IGNITION KEY ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH Press and release 1 time	HORN CHIRP 1 CHIRP Confirming Program Mode	REMOTE BUTTON Press Button to Select Menu 4
--	---	--	---

SETTING 1- TACH OPTIONS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP SETS OPTION 1 - HYBRID 1- The remote starter will ignore the Tach input after the remote start activates.
- 2 CHIRPS SETS OPTION 2 -HYBRID 2- No Tach connection required. Starter wire defaults at 2 seconds.
- 2 CHIRPS SETS OPTION 3 -AUTO TACH LEARN- The system will automatically learns the vehicles Tach. Tachless on TL Models. (DEFAULT)

SETTING 2-ADJUST FOR UNDER-CRANK
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP Each time the HORN chirps the Tach setting is reduced by 10%

SETTING 3-ADJUST FOR OVER-CRANK
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP Each time the HORN chirps the Tach setting is increased by 10%

SETTING 4- TACH WAIT
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 1 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP SETS OPTION 1 - 300ms- The system will wait 300ms before starting to monitor the Tach input.
- 2 CHIRPS SETS OPTION 2 - 750ms- The system will wait 750ms before starting to monitor the Tach input.
- 3 CHIRPS SETS OPTION 3 - NO WAIT- The system will monitor the Tach as soon as the vehicle has remote started. (DEFAULT)

PROGRAM MODE

→ CONT'N FROM PREVIOUS PAGE

SETTING 3- (+) GLOW PLUG/ INPUT TRIGGER TO START
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED **3 CHIRP** **3X**

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP** **SETS OPTION 1 - NEGATIVE GLOW PLUG/ 20 SECOND DELAY START**
- 2 CHIRP** **SETS OPTION 2 - POSITIVE TRIGGER TO START (1 PULSE)- 1 (+) pulse on the input will activate remote starter.**
- 3 CHIRP** **SETS OPTION 3 - GAS ENGINE/ POSITIVE GLOW PLUG**

SETTING 4- RE-ARM OPTIONS
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED **4 CHIRPS** **4X**

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 5 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP** **SETS OPTION 1 - TYPE 2- The rearm output pulses only when the lock button is pressed.**
- 2 CHIRPS** **SETS OPTION 2 - AFTER START- The re-arm output will pulse after the remote start starts the vehicle (DEFROST/ HEATED SEAT)**
- 3 CHIRPS** **SETS OPTION 3 - REARM- Pulsed output when the doors are locked and after remote start shutdown. (DEFAULT)**

SETTING 5- RUN TIME
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 5 IS SELECTED **5 CHIRPS** **5X**

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 6 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP** **SETS OPTION 1 - 4 MINUTES- The system will run for approximately 4 minutes then shut off.**
- 2 CHIRPS** **SETS OPTION 2 - 45 MINUTES- The system will run for approximately 45 minutes then shut off.**
- 3 CHIRPS** **SETS OPTION 3 - 15 MINUTES- The system will run for approximately 15 minutes then shut off. (DEFAULT)**

PROGRAM MODE

→ CONT'N FROM PREVIOUS PAGE

SETTING 3- (+) GLOW PLUG/ INPUT TRIGGER TO START
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED **3 CHIRP** **3X**

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP** **SETS OPTION 1 - NEGATIVE GLOW PLUG/ 20 SECOND DELAY START**
- 2 CHIRP** **SETS OPTION 2 - POSITIVE TRIGGER TO START (1 PULSE)- 1 (+) pulse on the input will activate remote starter.**
- 3 CHIRP** **SETS OPTION 3 - GAS ENGINE/ POSITIVE GLOW PLUG**

SETTING 4- RE-ARM OPTIONS
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED **4 CHIRPS** **4X**

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 5 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP** **SETS OPTION 1 - TYPE 2- The rearm output pulses only when the lock button is pressed.**
- 2 CHIRPS** **SETS OPTION 2 - AFTER START- The re-arm output will pulse after the remote start starts the vehicle (DEFROST/ HEATED SEAT)**
- 3 CHIRPS** **SETS OPTION 3 - REARM- Pulsed output when the doors are locked and after remote start shutdown. (DEFAULT)**

SETTING 5- RUN TIME
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 5 IS SELECTED **5 CHIRPS** **5X**

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 6 - PRESS & RELEASE THE VALET SWITCH

- 1 CHIRP** **SETS OPTION 1 - 4 MINUTES- The system will run for approximately 4 minutes then shut off.**
- 2 CHIRPS** **SETS OPTION 2 - 45 MINUTES- The system will run for approximately 45 minutes then shut off.**
- 3 CHIRPS** **SETS OPTION 3 - 15 MINUTES- The system will run for approximately 15 minutes then shut off. (DEFAULT)**

SYSTEM WIRING DETAILS

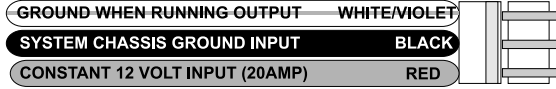
PIN 1	YELLOW	RE-ARM (-) PROGRAMMABLE	Supplies one .75 second pulse when locked and one .75 second pulse after remote start shutdown. Factory alarm re-arm/ RAP shutdown.
PIN 2	BROWN	DISARM (-)	Supplies one .75 second pulse when the unlock button is pressed and one .75 second pulse before remote start activation. For factory alarm dis-arm/ "wake up".
PIN 3	BLACK	AUX #1 OUTPUT (-) PROGRAMMABLE	Default- AUX channel output when the # button is held with no car finder on # button. It can also be programmed to a (-) Accessory or (-) Starter output with the (#) button activating car finder mode.
PIN 4	RED /WHITE	AUX #2 OUTPUT (-) PROGRAMMABLE	Default- Output activates when the Unlock button is held for at least 3 seconds. The output will stay on for 5 seconds or until the button is released. Programmable for Dome light Output or 2nd Unlock Output.
PIN 5	WHITE/BLUE	HORN OUTPUT (-) PROGRAMMABLE	Connect this wire to the factory Horn wire of the vehicle. This connection will provide audible confirmation when programming and when a function is performed.
PIN 6	PINK	BRAKE SWITCH INPUT (+)	This wire must be connected to the wire at the brake switch that changes to 12volts when the brake is pressed.
PIN 7	GRN/WHITE	HOOD PIN INPUT (-)	Connect this wire to the supplied hood pin switch. If ground is detected on this input the remote starter will not activate.
PIN 8	BLUE/WHITE	TACH WIRE INPUT (A/C)	This wire is used to detect when the vehicle has started. The Tach source is typically taken from a fuel injector, coil, coil pack or crank position sensor. The Tach wire is generally found as the opposite from the common wire at the coil or fuel injector.
PIN 9	BLUE	GLOW PLUG INPUT (+)	Default Gas Mode or Positive Glow Plug if the Gray/Black is connected. Programmable for Negative Glow Plug or (+) Start Trigger.

SYSTEM WIRING DETAILS

PIN 1	YELLOW	RE-ARM (-) PROGRAMMABLE	Supplies one .75 second pulse when locked and one .75 second pulse after remote start shutdown. Factory alarm re-arm/ RAP shutdown.
PIN 2	BROWN	DISARM (-)	Supplies one .75 second pulse when the unlock button is pressed and one .75 second pulse before remote start activation. For factory alarm dis-arm/ "wake up".
PIN 3	BLACK	AUX #1 OUTPUT (-) PROGRAMMABLE	Default- AUX channel output when the # button is held with no car finder on # button. It can also be programmed to a (-) Accessory or (-) Starter output with the (#) button activating car finder mode.
PIN 4	RED /WHITE	AUX #2 OUTPUT (-) PROGRAMMABLE	Default- Output activates when the Unlock button is held for at least 3 seconds. The output will stay on for 5 seconds or until the button is released. Programmable for Dome light Output or 2nd Unlock Output.
PIN 5	WHITE/BLUE	HORN OUTPUT (-) PROGRAMMABLE	Connect this wire to the factory Horn wire of the vehicle. This connection will provide audible confirmation when programming and when a function is performed.
PIN 6	PINK	BRAKE SWITCH INPUT (+)	This wire must be connected to the wire at the brake switch that changes to 12volts when the brake is pressed.
PIN 7	GRN/WHITE	HOOD PIN INPUT (-)	Connect this wire to the supplied hood pin switch. If ground is detected on this input the remote starter will not activate.
PIN 8	BLUE/WHITE	TACH WIRE INPUT (A/C)	This wire is used to detect when the vehicle has started. The Tach source is typically taken from a fuel injector, coil, coil pack or crank position sensor. The Tach wire is generally found as the opposite from the common wire at the coil or fuel injector.
PIN 9	BLUE	GLOW PLUG INPUT (+)	Default Gas Mode or Positive Glow Plug if the Gray/Black is connected. Programmable for Negative Glow Plug or (+) Start Trigger.

SYSTEM WIRING DETAILS

3 PIN BYPASS CONNECTOR



- 1- **WHITE/VIOLET Wire- Ground When Running (-)**
Connect this wire to the bypass modules negative turn on wire. When the remote starter is activated this wire will switch to ground.
- 2- **BLACK Wire- System Ground (-)**
Connect this wire to the ground input on the bypass module.
- 3- **RED Wire- 12volt Power Input (+)**
Connect this wire the 12volt input on the bypass module.

4 PIN DATA BYPASS

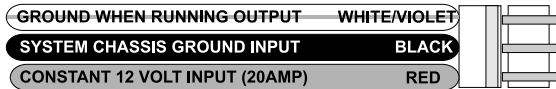
DATA LINK CONNECTOR - FOR USE WITH COMPATIBLE BYPASS MODULES ONLY
This connector eliminates the need to connect the lock, unlock, trunk, ignition, ground when running and other outputs to the bypass module. These function are controlled through this Data Link Connector.

TRANSMITTER PROGRAMMING

- 1 - Turn the Ignition Key On/Off On/Off On. (Leaving the key ON)
- 2) Press and **HOLD** the Program Switch.
(The HORN will chirp 1 time, **CONTINUE to HOLD**)
If the HORN does not chirp turn the key off, then repeat step 1
- 3) Continue to **HOLD** the Program Switch and the HORN will chirp 5 times.
- 4) Press the **LOCK BUTTON** on each of remote's to be programmed.
**Pause for about 1 second between programming of each remote.
System can accept 4 remotes max.*
- 5) The Park lights will flash once and the HORN will chirp once each time a new code is learned.
- 6) Release the Program switch and turn Ignition OFF.

SYSTEM WIRING DETAILS

3 PIN BYPASS CONNECTOR



- 1- **WHITE/VIOLET Wire- Ground When Running (-)**
Connect this wire to the bypass modules negative turn on wire. When the remote starter is activated this wire will switch to ground.
- 2- **BLACK Wire- System Ground (-)**
Connect this wire to the ground input on the bypass module.
- 3- **RED Wire- 12volt Power Input (+)**
Connect this wire the 12volt input on the bypass module.

4 PIN DATA BYPASS

DATA LINK CONNECTOR - FOR USE WITH COMPATIBLE BYPASS MODULES ONLY
This connector eliminates the need to connect the lock, unlock, trunk, ignition, ground when running and other outputs to the bypass module. These function are controlled through this Data Link Connector.

TRANSMITTER PROGRAMMING

- 1 - Turn the Ignition Key On/Off On/Off On. (Leaving the key ON)
- 2) Press and **HOLD** the Program Switch.
(The HORN will chirp 1 time, **CONTINUE to HOLD**)
If the HORN does not chirp turn the key off, then repeat step 1
- 3) Continue to **HOLD** the Program Switch and the HORN will chirp 5 times.
- 4) Press the **LOCK BUTTON** on each of remote's to be programmed.
**Pause for about 1 second between programming of each remote.
System can accept 4 remotes max.*
- 5) The Park lights will flash once and the HORN will chirp once each time a new code is learned.
- 6) Release the Program switch and turn Ignition OFF.

PROGRAM MODE

ENTERING PROGRAM MODE 3

IGNITION KEY ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH Press and release 1 time	HORN CHIRP 1 CHIRP Confirming Program Mode	REMOTE BUTTON Press START Button to Select Menu 3
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SETTING 1- SELECTABLE RELAY OUTPUT
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - SECOND STARTER- The WHITE wire on the 6-pin connector acts as a Second Starter output.

2 CHIRPS → SETS OPTION 2 - SECOND ACCESSORY- The WHITE wire on the 6-pin connector acts as a Second Accessory output.

3 CHIRPS → SETS OPTION 3 - SECOND IGNITION- The WHITE wire on the 6-pin connector acts as a Second Ignition output. (DEFAULT)

SETTING 2-SPECIAL DOOR LOCK OPTIONS
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - TYPE 2 - The doors will unlock before remote start, lock when remote starter starts and again when the remote start shuts down.

2 CHIRPS → SETS OPTION 2 - RE-LOCK- The doors will automatically lock when the remote starter shuts down.

3 CHIRPS → SETS OPTION 3 - NORMAL OPERATION- No additional door lock or door unlock pulses. (DEFAULT)

CON'T ON NEXT PAGE

PROGRAM MODE

ENTERING PROGRAM MODE 3

IGNITION KEY ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH Press and release 1 time	HORN CHIRP 1 CHIRP Confirming Program Mode	REMOTE BUTTON Press START Button to Select Menu 3
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SETTING 1- SELECTABLE RELAY OUTPUT
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - SECOND STARTER- The WHITE wire on the 6-pin connector acts as a Second Starter output.

2 CHIRPS → SETS OPTION 2 - SECOND ACCESSORY- The WHITE wire on the 6-pin connector acts as a Second Accessory output.

3 CHIRPS → SETS OPTION 3 - SECOND IGNITION- The WHITE wire on the 6-pin connector acts as a Second Ignition output. (DEFAULT)

SETTING 2-SPECIAL DOOR LOCK OPTIONS
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - TYPE 2 - The doors will unlock before remote start, lock when remote starter starts and again when the remote start shuts down.





2 CHIRPS → SETS OPTION 2 - RE-LOCK- The doors will automatically lock when the remote starter shuts down.

3 CHIRPS → SETS OPTION 3 - NORMAL OPERATION- No additional door lock or door unlock pulses. (DEFAULT)

CON'T ON NEXT PAGE

PROGRAM MODE

ENTERING PROGRAM MODE 2

IGNITION KEY  ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH  Press and release 1 time	HORN CHIRP  1 CHIRP Confirming Program Mode	REMOTE BUTTON  Press UNLOCK Button to Select Menu 2
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SETTING 1 - VALET SETTINGS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - SECURE- The LED/ Program Switch must be held for 15 seconds to place the system into Valet Mode.
 2 CHIRPS → SETS OPTION 2 - STANDARD- The LED/ Program Switch must be held for 5 seconds to place the system into Valet Mode. (DEFAULT)

SETTING 2-PARK LIGHT OUTPUTS
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - 30 SECOND- The park light output will flash for all functions and will stay active for 30 seconds when unlock is pressed.
 2 CHIRPS → SETS OPTION 2 - NORMAL OPERATION- The park lights will flash for all functions. (DEFAULT)

SETTING 3-HORN OUTPUT
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH





1 CHIRP → SETS OPTION 1 - SHORT OUTPUT- The HORN output will activate for 5ms when a function is preformed.
 2 CHIRPS → SETS OPTION 2 - LONG OUTPUT- The HORN output will activate for 50ms when a function is preformed.
 3 CHIRPS → SETS OPTION 3 - NORMAL OUTPUT- The HORN output will activate for 10ms when a function is preformed. (DEFAULT)

→ CON'T ON NEXT PAGE

PROGRAM MODE

ENTERING PROGRAM MODE

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
- 2 - Press and release the Program Switch 1 time. (The Park lights will turn on and the Horn will chip to confirm that program mode was entered)
- 3 - Select the Program Menu by pressing...

Press Lock  MENU 1	Press Unlock  MENU 2	Press Start  MENU 3	Press  MENU 4
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SELECT AND CHANGE

- 4 - Press and Release the Program Switch to advance through the settings. (Confirmed by HORN chirps & LED flashes)
- 5 - Press and hold the Program Switch to change the setting. (Confirmed by HORN Chirps)
- 6 - To exit Program Mode, turn key off. (Confirmed by Long HORN Chirp)





SYSTEM RESET

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
- 2 - Press and RELEASE the Program Switch 1 time. (HORN will chip to confirm that program mode was entered)
- 3 - Press and HOLD the Program Switch for until the HORN Chirps 3 times.
- 4 - Turn ignition key OFF to exit.

Note- System reset does not delete the transmitter codes from memory or reset Menu 3 Setting 1 (selectable Output) back to second ignition. This setting must be manually changed.

PROGRAM MODE

ENTERING PROGRAM MODE 2

IGNITION KEY  ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH  Press and release 1 time	HORN CHIRP  1 CHIRP Confirming Program Mode	REMOTE BUTTON  Press UNLOCK Button to Select Menu 2
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SETTING 1 - VALET SETTINGS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - SECURE- The LED/ Program Switch must be held for 15 seconds to place the system into Valet Mode.
 2 CHIRPS → SETS OPTION 2 - STANDARD- The LED/ Program Switch must be held for 5 seconds to place the system into Valet Mode. (DEFAULT)

SETTING 2-PARK LIGHT OUTPUTS
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP → SETS OPTION 1 - 30 SECOND- The park light output will flash for all functions and will stay active for 30 seconds when unlock is pressed.
 2 CHIRPS → SETS OPTION 2 - NORMAL OPERATION- The park lights will flash for all functions. (DEFAULT)

SETTING 3-HORN OUTPUT
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S)
 GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH





1 CHIRP → SETS OPTION 1 - SHORT OUTPUT- The HORN output will activate for 5ms when a function is preformed.
 2 CHIRPS → SETS OPTION 2 - LONG OUTPUT- The HORN output will activate for 50ms when a function is preformed.
 3 CHIRPS → SETS OPTION 3 - NORMAL OUTPUT- The HORN output will activate for 10ms when a function is preformed. (DEFAULT)

→ CON'T ON NEXT PAGE

PROGRAM MODE

ENTERING PROGRAM MODE

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
- 2 - Press and release the Program Switch 1 time. (The Park lights will turn on and the Horn will chip to confirm that program mode was entered)
- 3 - Select the Program Menu by pressing...

Press Lock  MENU 1	Press Unlock  MENU 2	Press Start  MENU 3	Press  MENU 4
---	---	--	--

SELECT AND CHANGE

- 4 - Press and Release the Program Switch to advance through the settings. (Confirmed by HORN chirps & LED flashes)
- 5 - Press and hold the Program Switch to change the setting. (Confirmed by HORN Chirps)
- 6 - To exit Program Mode, turn key off. (Confirmed by Long HORN Chirp)

SYSTEM RESET

- 1 - Turn the Ignition Key On/Off On/Off On (Leaving the key ON)
- 2 - Press and RELEASE the Program Switch 1 time. (HORN will chip to confirm that program mode was entered)
- 3 - Press and HOLD the Program Switch for until the HORN Chirps 3 times.
- 4 - Turn ignition key OFF to exit.

Note- System reset does not delete the transmitter codes from memory or reset Menu 3 Setting 1 (selectable Output) back to second ignition. This setting must be manually changed.

PROGRAM MODE

ENTERING PROGRAM MODE 1

IGNITION KEY ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH Press and release 1 time	HORN CHIRP 1 CHIRP Confirming Program Mode	REMOTE BUTTON Press LOCK Button to Select Menu 1
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SETTING 1-IGNITION AUTO-LOCKS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRP
3 CHIRP

SETS OPTION 1 - AUTO-LOCK & UNLOCK ENABLED- The doors will lock when the key is turned on and unlock when the key is turned off.
SETS OPTION 2 - AUTO LOCK ONLY ENABLED- The doors will lock when the key is turned on but will not unlock when the key is turned off.
SETS OPTION 3 - AUTO LOCK DISABLED- The doors will not lock or unlock when the key is turned on or off. (DEFAULT)

SETTING 2-HORN OUTPUT
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS

SETS OPTION 1 - HORN DISABLED- The HORN and HORN* will activate with Panic and Car Finder Mode only.
SETS OPTION 2 - HORN OUTPUT- The HORN and the HORN* (alarm models) output will activate for all functions. (DEFAULT)

SETTING 3-DOOR LOCK PULSES
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - DOUBLE UNLOCK & SINGLE LOCK PULSE- The system will provide 2 unlock pulses w/unlock and 1 lock pulse w/lock.
SETS OPTION 2 - DOUBLE LOCK & SINGLE UNLOCK PULSE- The system will provide 2 lock pulses and 2 unlock pulses.
SETS OPTION 3 - NORMAL OPERATION- The system will pulse once for lock and once for unlock. (DEFAULT)

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PROGRAM MODE

SYSTEM PROGRAMMING - Menu 1

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SETTING 4- DOOR LOCK TIMING
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 5 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - SHORT PULSES- The output for lock and unlock is .25sec. Helps prevent windows from rolling up/down on some vehicles..
SETS OPTION 2 - LONG PULSES- The output for lock and unlock is 3 seconds. Used to activate vacuum door lock systems.
SETS OPTION 3 - NORMAL PULSES- The output for lock and unlock is .75sec. Used for most vehicles. (DEFAULT)

SETTING 5- AUX OUTPUT 1
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 5 IS SELECTED

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 6 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - NEGATIVE ACCESSORY OUTPUT- Output acts as a negative accessory output. # Activates Car Finder Mode.
SETS OPTION 2 - NEGATIVE STARTER OUTPUT- Output acts as a negative starter output. # Activates Car Finder Mode.
SETS OPTION 3 - AUXILIARY CHANNEL OUTPUT- Press and hold the # button to activate auxiliary with unlock and disarm pulse. (DEFAULT)

SETTING 6- AUX CHANNEL 2
THE HORN WILL CHIRP 6 TIMES WHEN SETTING 6 IS SELECTED

CHANGE SETTING 6 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 7 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - DOME LIGHT OUTPUT- The turns on for 30 seconds with unlock and turns off with lock and ignition on.
SETS OPTION 2 - 2nd UNLOCK- The output will activate when the unlock button is pressed twice within 3 seconds.
SETS OPTION 3 - TRUNK RELEASE- OUTPUT ACTIVATES WHEN UNLOCK BUTTON IS PRESSED AND HELD FOR 3 SECONDS (DEFAULT)

PROGRAM MODE

ENTERING PROGRAM MODE 1

IGNITION KEY ON/OFF - ON/OFF - ON (Leaving the key ON)	PROGRAM SWITCH Press and release 1 time	HORN CHIRP 1 CHIRP Confirming Program Mode	REMOTE BUTTON Press LOCK Button to Select Menu 1
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SETTING 1-IGNITION AUTO-LOCKS
THE HORN WILL CHIRP 1 TIME WHEN SETTING 1 IS SELECTED

CHANGE SETTING 1 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 2 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRP
3 CHIRP

SETS OPTION 1 - AUTO-LOCK & UNLOCK ENABLED- The doors will lock when the key is turned on and unlock when the key is turned off.
SETS OPTION 2 - AUTO LOCK ONLY ENABLED- The doors will lock when the key is turned on but will not unlock when the key is turned off.
SETS OPTION 3 - AUTO LOCK DISABLED- The doors will not lock or unlock when the key is turned on or off. (DEFAULT)

SETTING 2-HORN OUTPUT
THE HORN WILL CHIRP 2 TIMES WHEN SETTING 2 IS SELECTED

CHANGE SETTING 2 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 3 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS

SETS OPTION 1 - HORN DISABLED- The HORN and HORN* will activate with Panic and Car Finder Mode only.
SETS OPTION 2 - HORN OUTPUT- The HORN and the HORN* (alarm models) output will activate for all functions. (DEFAULT)

SETTING 3-DOOR LOCK PULSES
THE HORN WILL CHIRP 3 TIMES WHEN SETTING 3 IS SELECTED

CHANGE SETTING 3 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 4 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - DOUBLE UNLOCK & SINGLE LOCK PULSE- The system will provide 2 unlock pulses w/unlock and 1 lock pulse w/lock.
SETS OPTION 2 - DOUBLE LOCK & SINGLE UNLOCK PULSE- The system will provide 2 lock pulses and 2 unlock pulses.
SETS OPTION 3 - NORMAL OPERATION- The system will pulse once for lock and once for unlock. (DEFAULT)

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PROGRAM MODE

SYSTEM PROGRAMMING - Menu 1

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SETTING 4- DOOR LOCK TIMING
THE HORN WILL CHIRP 4 TIMES WHEN SETTING 4 IS SELECTED

CHANGE SETTING 4 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 5 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - SHORT PULSES- The output for lock and unlock is .25sec. Helps prevent windows from rolling up/down on some vehicles..
SETS OPTION 2 - LONG PULSES- The output for lock and unlock is 3 seconds. Used to activate vacuum door lock systems.
SETS OPTION 3 - NORMAL PULSES- The output for lock and unlock is .75sec. Used for most vehicles. (DEFAULT)

SETTING 5- AUX OUTPUT 1
THE HORN WILL CHIRP 5 TIMES WHEN SETTING 5 IS SELECTED

CHANGE SETTING 5 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 6 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - NEGATIVE ACCESSORY OUTPUT- Output acts as a negative accessory output. # Activates Car Finder Mode.
SETS OPTION 2 - NEGATIVE STARTER OUTPUT- Output acts as a negative starter output. # Activates Car Finder Mode.
SETS OPTION 3 - AUXILIARY CHANNEL OUTPUT- Press and hold the # button to activate auxiliary with unlock and disarm pulse. (DEFAULT)

SETTING 6- AUX CHANNEL 2
THE HORN WILL CHIRP 6 TIMES WHEN SETTING 6 IS SELECTED

CHANGE SETTING 6 - PRESS & HOLD THE VALET SWITCH UNTIL THE HORN CHIRP(S) GO TO SETTING 7 - PRESS & RELEASE THE VALET SWITCH

1 CHIRP
2 CHIRPS
3 CHIRPS

SETS OPTION 1 - DOME LIGHT OUTPUT- The turns on for 30 seconds with unlock and turns off with lock and ignition on.
SETS OPTION 2 - 2nd UNLOCK- The output will activate when the unlock button is pressed twice within 3 seconds.
SETS OPTION 3 - TRUNK RELEASE- OUTPUT ACTIVATES WHEN UNLOCK BUTTON IS PRESSED AND HELD FOR 3 SECONDS (DEFAULT)