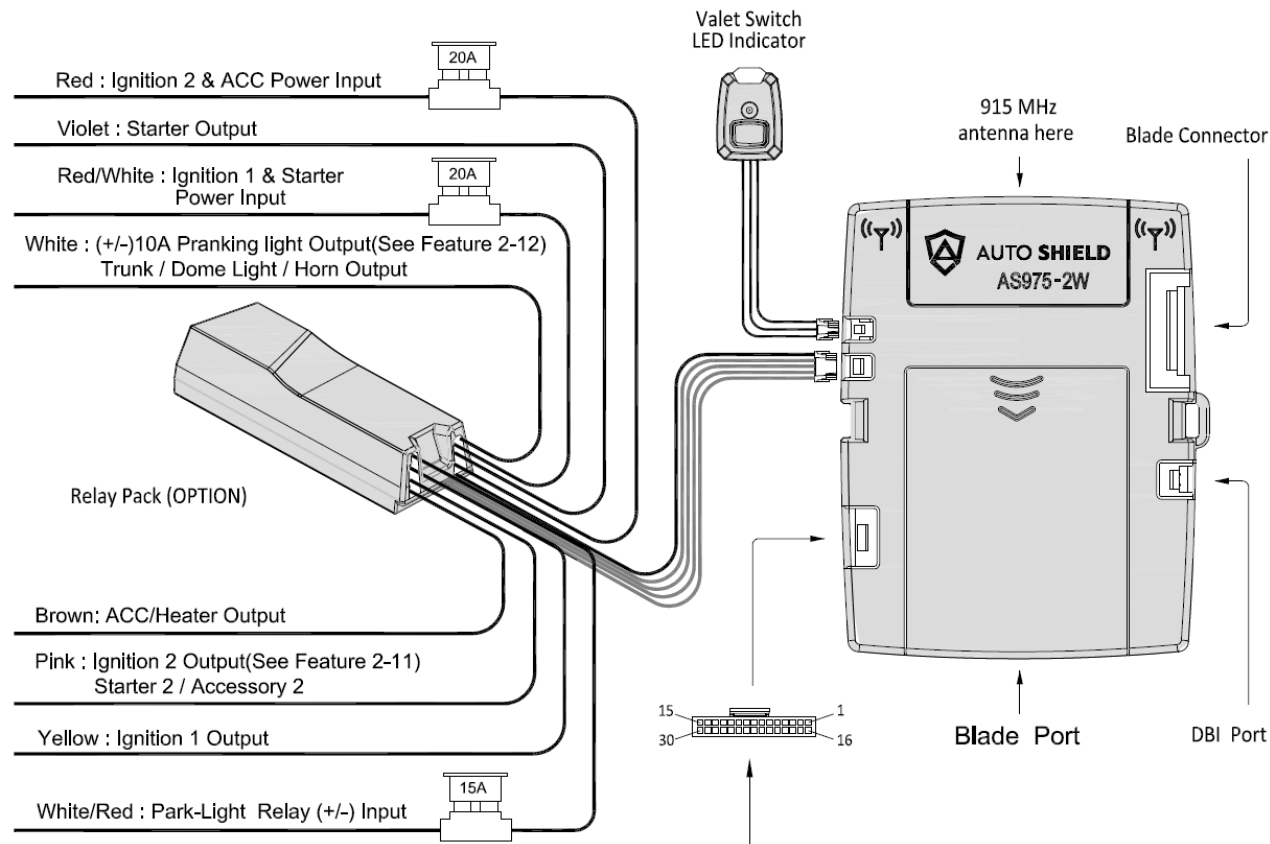


INSTALLATION MANUAL



Note: The main unit should be securely anchored on a stable surface using zip ties in order for the shock sensor and tilt sensor to work properly.

1	Orange/ Black	(-) 200mA Aux 1 Output (1 Second Pulse) (See Feature 3-01, 02) Aux 1 Time Setting	16	White / Black	(-) 200mA Parking Light Output (See Feature 3-05, 06) Aux B Time Setting
2	Light Green / Black	(-) 200mA Aux A Output (1 Second Pulse) (See Feature 3-03, 04) Aux A Time Setting / Rear Defogger	17	Light blue/ Black	(-) 200mA 2 Step Door Unlock Output (See Feature 3-07, 08) Aux C Time Setting /
3	Red/ Black	(-) 200mA Factory Alarm Disarm output (See Feature 2-08) Start Status / Key Sensor By-Pass / Dome Light / 2-step Door Unlock	18	Yellow/ Black	(-) Remote Start Activation Input (Automatic Transmission) (See Feature 2-06) or (-) Parking Brake / E-Brake Input (Manual Transmission)
4	Pink/ Black	(-) 200mA Factory Alarm Arm Output (See Feature 2-09) Dome Light / Home / 2-step Door Unlock	19	White	(+) Brake Switch Shutdown Input
5			20	Pink	Tachometer Signal Input
6	Blue/ White	250ma (-) Door Unlock / (+) Door Lock Pulse Output	21	Dark Green	Zone 1 (-) Negative Door Pin Trigger
7	Green/ White	250ma (-) Door Lock / (+) Door Unlock Pulse Output	22	Violet	Zone 1 (+) Positive Door Pin Trigger
8	Red / White	(-) 500mA Ground Output When Armed	23	Black	(-) Chassis Ground
9	Orange/ White	(-) 200mA Status Output (Ground Output While Running)	24	Gray	Diesel Wait to Start Input (See Feature 4-07)
10	Gray/ Black	(-) 200mA Trunk Pulse Output (See Feature 2-10) Parking Light / Dome Light / Horn / 2-step Door Unlock	25	Dark Blue	Zone 2 (-) Negative Trunk Trigger
11	Brown/ White	(-) 200mA Accessory 3 Control Output	26	Light Green	(-) Neutral Safety Switch Input
12	Black/ White	(-) 200mA Ignition 3 Control Output	27	Light Blue	Zone 3 (-) Negative Hood Pin Safety Shutdown Input.
13	Violet/ White	(-) 200mA Starter 3 Output	28	Yellow	(+) Ignition Input
14	Green/ Black	(-) 200mA Horn Output (See Feature 3-09, 10) Aux D Time Setting	29	Violet/ Black	(-) 200mA Dome Light Output (See Feature 3-11, 12) Aux E Time Setting

Notice for installation:

- In order to avoid deterioration of reception quality of the Bluetooth and 915 MHz antennas.
 - The main unit should be installed at a distance of at least 1/2 inches from the metal surfaces.
 - The main unit should be placed underneath the dash (Middle of the dash and high up. Preferably and the antenna should point towards the driver or downwards.)
 - The antenna should be placed away from the wires underneath your dash.
- The main unit should be securely anchored on a stable surface using zip ties in order for the shock sensor and tilt sensor to work properly.

Transmitter Programming:

Enter:

- Turn the Ignition 'switch "OFF/ON" 3 TIMES and stay in the "ON" position. Within 15 seconds.
- Push the Valet switches 3 times and holds in on the 3rd push, when a long chirp is heard, release the valet switch. You are now in the Transmitter programming mode.

Program:

- Press any button on transmitter once until the siren responds with a confirming chirp; the first transmitter is now programmed.
- Press any button on the second transmitter until the siren responds with a confirming chirp; the second transmitter is now programmed.
- Apply the same procedure to program 3rd and 4th transmitters.

Exit: Turn Ignition to "OFF" position or leave it for 15 seconds. 3 long chirps and 3 parking light flashes will confirm exit.

Note: If more than 4 transmitters programmed, the system will only keep the last four.

To Learn the Tach Signal:

- Press the Valet switch 2 times and hold in on the 2nd.
- Hold the foot brake and start the vehicle with the key, after 3 seconds, the status LED will flash to confirm a good tach signal.
- Release the valet switch and foot brake, a chirp and a light flash will confirm the tach signal is learned.

Note: When the tachometer is programmed, the main unit automatically enters the Tachometer Engine Checking Mode.

Shock sensor Programming:

Note: The main unit should be securely anchored on a stable surface using zip ties in order for the shock sensor and tilt sensor to work properly.

- Turn the Ignition switch on/off 3 times and stay in the Off position.
- Exit the vehicle and close vehicle's doors to program the shock sensor.
- Shock sensor fine tune and test mode:** Press and hold Buttons + simultaneously until a long chirp is heard, and then release the buttons. The ^{S12} text and tone play on the LCD transceiver. You are now in the shock sensor fine tune and test mode.
- Auto Learning Mode:** To set sensitivity through shock sensor learning:
 - Press Buttons + simultaneously two times and Hold down second time until two long chirps are heard, and then release the buttons. The ⁰⁰⁰⁰ text and tone play on the LCD transceiver. You are now in the auto learning mode.
 - Hit the car with your fist:** a chirp will be heard to confirm the shock sensor sensitivity has been set. Now you can fine tune and test the shock sensor.

5. Make fine tune to the instant trigger:

- To increase sensitivity, press the transmitter Button,
 - To decrease sensitivity, press the transmitter Button.
- Note:** A chirp sound to confirm the press, 2 chirps sound to notify setting at the end.

6. To make fine tune to warn away trigger:

- To increase sensitivity, press the transmitter button,
- To decrease sensitivity, press the transmitter button.

Note: A chirp sound to confirm the press, 2 chirps sound to notify setting at the end.

7. Testing the shock Sensor:

- Under programming mode, you can test the shock sensor any time.
 - While testing, a short chirp will sound when the warn-away system is triggered; a long chirp will sound when shock sensor is triggered.
8. **Exit:** There is no activity for 60 seconds / Open the door. / Turn the ignition switch on will exit program mode and 3 long chirps to confirm exit.

Note:

- The LCD will display the sensitivity level. (Shock sensor trigger will be displayed as ^{S12}, Warn away trigger will be displayed as ^{W19})

- Sensitivity level for the shock sensor trigger is from 1 to 27 with 1 being the least sensitive and 27 being the most sensitive.
- Warn-away system's sensitivity settings changes with the shock sensor trigger's sensitivity settings automatically. Therefore sensitivity levels for the shock sensor trigger should be set before sensitivity levels for the warn-away system. The sensitivity range of the warn-away system is from 27 to the shock sensor trigger's sensitivity level with 27 being the most sensitive.
- Please be careful as not to damage the vehicle during the sensitivity adjustments.

Feature Configuration Programming:

- Turn the Ignition 'switch "On/Off" 3 times and stay in the "Off" position.
- Press and hold the valet/override button until a long chirp is heard, then release the valet/override switch. You are now in the feature programming mode.
- Select a Feature bank. Press and release the button the number of times corresponding to the feature bank you wish to change. The system chirp and the LCD will display **BANK 1** / **BANK 2** / **BANK 3** / **BANK 4** to match the feature number.
- Use the transmitter button to scroll through the selections in each feature, the system chirp and the LCD will display **1 - 10** to match the feature number.
- Press the transmitter button to change the desired feature (Opt.), the system chirp and the LCD will display **OPT. 03** to match the Opt. feature number.

EXIT: Turn the ignition on or there is no activity for 60 seconds, it will exit the setting, 3 long chirps from siren to confirm.

Back to Factory Setting: Pressing and hold button for 3 seconds to resets the feature to the factory default.

Feature Bank 1 (1 Chirp) - Security Feature

	Feature	Opt. 1 1 chirp	Opt. 2 2 chirps	Opt. 3 3 chirps	Opt. 4 4 chirps	Opt. 5+ 5+ chirps
1-01	Security	Remote Start w/ Security	Remote Start w/ Keyless Entry			
1-02	Data protocol	A.D.S.	Fortin			
1-03	Horn Chip Duration	Standard 20ms	50ms	30ms	10ms	
1-04	Confirmation Chip	Lock & Unlock	Lock Only			
1-05	Factory Alarm Disarm	With Aux 1 On	Without This Feature			
1-06	Door Ajar Error Chip	45 seconds Delay	Instant			
1-07	Siren / Horn Confirmation Chirp	ALL	Siren Only	Horn Only	OFF	
1-08	System Arming Mode	Active	Passive Arming Without Locking	Passive Arming W/ Passive Locking		
1-09	Automatic Rearm	OFF	ON			
1-10	Override Password Pin Code	Setting for 1	Setting for 2	Setting for 3	Setting for 4	Setting for 5 / 6 / 7 / 8 / 9
1-11	Tilt Sensor Adjust and Test Mode	3°	1.5°	Off		

Testing Tilt Sensor: Under Tilt Sensor Adjust and Test mode, you can test the Tilt sensor any time. The parking light will turn on when tilt sensor is triggered.

Feature Bank 2 (2 Chirps) - Convenience Feature

	Feature	Opt. 1 1 chirp	Opt. 2 2 chirps	Opt.3 3 chirps	Opt. 4 4 chirps	Opt. 5+ 5+ chirps	
2-01	Door Lock & Unlock (second)	0.8 second	3.5 seconds	0.8 sec. Lock & 0.35 sec. Unlock	0.8 sec. Double Lock & Unlock	0.8 sec. Lock & 0.8 sec. Double Unlock	
		Opt. 6 / 8 sec. Double Lock & 0.8 sec. Unlock					
		Opt. 7 / Door Lock with Comfort Feature (10 sec. Lock & 0.8 sec. Unlock.)					
		Opt. 8 / DBI Two-Step Unlock (DBI only) Opt. 9 / DBI Unlock All Door (DBI Only)					
2-02	Ignition Control Locks	Door Lock & Unlock	Door Lock Only	Door Unlock Only	Without This Feature		
2-03	Dome Light	Turn On & Off After Ignition On & Off	Turn On After Ignition Off	Without This Feature.			
2-04	Parking Light (Pathway Illumination)	OFF	Turn ON For 30 sec. Upon Unlock Signal	Turn ON For 30 sec. Upon Unlock Signal and 10 sec. Upon an Lock Signal			
2-05	Door Unlock		Pulse the Yellow Ignition 1 wire Before Unlock				
2-06	Yellow/Black Wire (30 Pin Connector)	Activation Pulse Count OFF	Activation Pulse Count 1	Activation Pulse Count 2	Activation Pulse Count 3		
2-07	Brown/Black Wire (30 Pin Connector)	Siren Output	Dome Light Output	Horn Output	2-step Door Unlock Output		
2-08	Red/Black Wire (30 Pin Connector)	Factory Alarm Disarm Output	Start Status Output (Bypass the Factory Alarm Shock Sensor)	Key Sensor By-Pass Output (when remote start is activated and stays on for 20 seconds)	Dome light Output	2-step Door Unlock Output	
2-09	Pink/Black Wire (30 Pin Connector)	Factory Alarm Arm Output	Dome light Output	Horn Output	2-step Door Unlock Output	5 Latch Rear Defogger 6 Pulse Rear Defogger	
2-10	Gray/Black Wire (30 Pin Connector)	Trunk Output	Dome light Output	Horn Output	Parking Light Output	2-step Door Unlock Output	
2-11	Thick Pink Wire (Relay Pack)	Ignition 2 Output	Start 2 Output	ACC 2 Output			
2-12	White Wire (Relay Pack)	Parking Light Output	Trunk Output	Dome light Output	Horn Output		

Feature Bank 3 (3 Chirps) - Aux Feature

	Feature	Opt. 1 1 chirp	Opt. 2 2 chirps	Opt.3 3 chirps	Opt. 4 4 chirps	Opt. 5+ 5+ chirps
3-01	Orange/Black Wire (30 Pin Connector)	Aux 1 1 second pulse Output	Aux 1 Latched Output	Aux 1 Latched Output & Reset with Ignition ON	Aux 1 Flex 1 sec. (Set interval between 1 to 90 sec.)	
3-02	AUX 1 Output	Control by Remote	Control by Arm	Control by Disarm	Control by Arm & Disarm	Control by Remote Start Only
3-03	Light Green/Black (30 Pin Connector)	Aux A 1 second pulse Output	Aux A Latched Output	Aux A Latched Output & Reset with Ignition ON	Aux A Flex 1 sec. (Set interval between 1 to 90 sec.)	5 Latch Rear Defogger 6 Pulse Rear Defogger
3-04	AUX A	Control by Remote	Control by Arm	Control by Disarm	Control by Arm & Disarm	Control by Remote Start Only
3-05	White/Black Wire (30 Pin Connector)	Parking Light Output	Aux B Latched Output	Aux B Latched Output & Reset with Ignition ON	Aux B Flex 1 sec. (Set interval between 1 to 90 sec.)	
3-06	AUX B	Control by Remote	Control by Arm	Control by Disarm	Control by Arm & Disarm	Control by Remote Start Only
3-07	Light blue/Black Wire	2-step Door Unlock Output	Aux C Latched Output	Aux C Latched Output & Reset with Ignition ON	Aux C Flex 1 sec. (Set interval between 1 to 90 sec.)	
3-08	AUX C	Control by Remote	Control by Arm	Control by Disarm	Control by Arm & Disarm	Control by Remote Start Only
3-09	Green/Black Wire	Horn Output	Aux D Latched Output	Aux D Latched Output & Reset with Ignition ON	Aux D Flex 1 sec. (Set interval between 1 to 90 sec.)	
3-10	AUX D	Control by Remote	Control by Arm	Control by Disarm	Control by Arm & Disarm	Control by Remote Start Only
3-11	Violet/Black (30 Pin Connector)	Dome light Output	Aux E Latched Output	Aux E Latched Output & Reset with Ignition ON	Aux E Flex 1 sec. (Set interval between 1 to 90 sec.)	
3-12	AUX E	Control by Remote	Control by Arm	Control by Disarm	Control by Arm & Disarm	Control by Remote Start Only

Smart Automatic Aux Selection:

If you dedicate the wires to Aux use, the alarm system will automatically arrange Aux 2 to Aux 6 according to the Aux A – Aux E order, if there is not Aux use dedication, the automatic arrangement will be skipped.

For example: With the light Green/Black wire (Aux A) as Rear Defogger output, and the Dark Blue/ Black wire (Aux D) as Horn output, the wires will be arranged as the following: **Aux 1** = Orange/ Black wire, **Aux 2** = White/ Black wire (Aux B), **Aux 3** = Light Blue/ Black wire. (Aux C), **Aux 4** = Violet/ Black wire (Aux E)

Flex Timer Setting:

1. System in 3-1, 03, 05, 07, 09, 11 Flex timer program mode.
2. For timer setting less than 10 seconds -- Press and release the valet switch number of times corresponding to the timer you wish to set. (e.g. 1 second = 1 time, 5seconds = 5 times)
3. For Timer setting more than 10 seconds -- Press and hold the valet switch, the timer will start immediately.
4. When the desired interval has passed, release the valet switch. The LCD will display.

Feature Bank 4 (4 Chirps) - Remote Star Feature

	Feature	Opt. 1 1 chirp	Opt. 2 2 chirps	Opt.3 3 chirps	Opt. 4 4 chirps	Opt. 5+ 5+ chirps
4-01	Engine Checking Mode	Voltage	Tachometer	Timer Only	Data Bus	
4-02	Starter Release for Tach & Voltage mode	Normal	Low Level	High Level		
4-03	Cranking Time for Voltage and Timer mode	0.6 second	0.8 second	1.0 second	1.2 seconds	5. 1.4 sec. 6. 1.6 sec. 7. 1.8 sec. 8. 2.0 sec. 9. 3.0 sec. 10. 4.0 sec.
4-04	Remote Start Runtime	20 minutes	3 minutes	10 minutes	30 minutes	45 minutes
4-05	Running time interval	3 hours	2 hours			
4-06	Transmission Mode	Automatic	Manual			
4-07	Engine Type	Gasoline	Diesel Engine Without Wait-To-Start Light 10 Sec. Warm-Up	Diesel Engine Without Wait-To-Start Light 15 Sec. Warm-Up	Diesel Engine Without Wait-To-Start Light 15 Sec. Warm-Up	Diesel Engine 5 20 sec. Warm-Up 6 45 seconds Warm-Up
4-08	Press to Start	Press the * button once	Press the * button twice			
4-09	Parking Light Output Upon Remote Start	Constant	Flashing			
4-10	Door Lock	After Start (Run)	After Shut-Down	Before Start & after Shut-Down	Without This Feature	
4-11	Turbo Mode	No Turbo Mode	Turbo timer 1 minute	Turbo timer 3 minutes	Turbo timer 5 minutes	
4-12	Low Temp. Control Start	OFF	ON 23°F (-5°C)	ON 14°F (-10°C)	ON 5°F (-15°C)	
4-13	High Temp. Control Start	OFF	ON 77°F (25°C)	ON 86°F (30°C)	ON 95°F (35°C)	

Shutdown Diagnostics:

The unit has the ability to report the cause of the last shutdown of the remote start system.

Press Buttons **↩ + *** simultaneously for 2 seconds.

4 Button Remote Transmitter: The parking light and chirps will now report the reason of the system last shutdown by flashing in the following grouped patterns,

LCD Remote Transceiver: The LCD display on the 2-way remote transceiver will report the reason of the last shutdown, and the **1-4** text and a fault tone play to confirm.

GROUP 1 (One Flash of Parking Light)		
Chirps	Shutdown Mode	Solution
1	Hood Open	• Close the hood. • Check 30-pin Light Green wire connection.
2	Optional Enable Switch OFF or Black/White must have a ground	• Check 30-pin Light Blue wire connection. • Move the Enable Toggle Switch to "ON" position. (If installed.) Move the gear selector to "Park"/ "NEUTRAL" position
3	Foot Brake on	• Check 30-pin White wire connection • Release Foot Brake.
4	System is in Valet Mode	Exit the Valet mode
5	Hi Voltage (Voltage Checking Type)	Set the "Feature 4-02 to "Low Level"
	Low or No RPM (Tachometer Checking Type)	• Check 30-pin Pink wire connection • Set the "Feature 4-02 to "Hi Level" • Re-learning the RPM
6	The engine has run successfully but is still starting (Tachometer Checking Type)	Set the "Feature 4-02 to "Low Level"

GROUP 2 (Two Flashes of Parking Light)		
Chirps	Shutdown Mode	Solution
1	Alarm triggered	
2	Running Time expired	
3	Transmitter Shutdown (or optional star activation push switch.)	
4	Over-Rev Shutdown	
5	Wait-to-start input timed out	(For Diesel Engine Only) See the Feature 4-08

GROUP 3 (Three Flashes of Parking Light)		
Chirps	Shutdown Mode	Solution
1	Manual transmission mode is enable and not initialized	Follow the manual transmission setup steps (page 27 of the user manual)
2	Door Open	• Close the Door. • Check 30-pin Dark Green or Violet wire connection.
3	(-) Parking Brake / E-Brake in Shutdown	• Set the Parking Brake / E-brake Brake. • Check 30 pin Yellow/ Black wire connection.
4	No RPM or the vehicle's clutch bypasses fail.	• Check 30 pin Violet/ White wire connection • The vehicle's clutch must be temporarily bypassed • Re-learning the RPM
5	Accelerometer trigger	• Move the gearshift lever to the neutral gear

Note: The Accelerometer monitors sudden movement forward or backward during the remote start process. It will Stop Remote Start after detected forward or backward movement.