ADVANCED KEYS
Smart Keyless Entry System

INSTALLATION GUIDE

Product Features:

- Smart Keyless Locking/Unlocking
- Compact Sized Smart Keys
- Dual-Antenna Setup
- Bypass Transponder RFID Cards
- Vehicle Anti-Theft Function
- Shock Sensor Alarm / Unlock
- Ignition Controlled Lock / Unlock
- Auto Vehicle Battery Power Saving
- Door-Not-Closed Reminder
- Smart Key Battery Low Reminder
- Locking-Delay Function
- Compatible with Push-Start Ignition
- Auto Window Closing / AUX Output

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PRODUCT CONTENTS

The following list of components are included in this system:

1 – Control Unit
2 – Smart Key Fob
2 – Bypass Transponder Card
1 – Main Harness (8-Pin)
1 – Accessory Harness (6-Pin)
1 – Dual Colour LED Indicator
1 – Bypass Antenna

1 – Front Main Antenna (With Yellow Tag)
1 – Rear Main Antenna (With Yellow Tag)
1 – Main Antennas Extension Harness
1 – Shock Sensor
1 – User Manual/Installation Guide
PRODUCT SAFETY AND LEGAL DISCLAIMER

- This product shall be installed by a certified technician therefore a certain level of competence and knowledge are therefore assumed when reading this guide.
- This guide is provided as a GENERAL installation instructions and vehicle subjected to installation maybe different.
- This product is designed based on vehicle regulatory standard. Please observe your local public road traffic law and regulations prior to installation.
- Exercise due-diligence when installing this product. The manufacturer and distributors of this product will not accept any vehicle damage or personal injury resulting from the installation of this product. Installation of this product is acceptance of this statement and releases the manufacturer/distributors of this product from any direct or indirect liabilities.
- Once installation is complete, please return this guide along with other documentations included in this product back to the customer for future reference. The manufacturer/distributors of this product does not guarantee this particular version will be available at a later date.

PRE-INSTALLATION CONSIDERATIONS

- Carefully read and understand the User Manual, Installation Guide and Electrical Service Information for the subjected vehicle before begin work.
- Install in a well-lit, dry, covered area away from the elements and keep at least one window open at all time during installation. Do not leave key inside ignition switch and/or detection range. Prepare all tools required for the installation. Special tools maybe necessary depending on vehicle.
- Verify the vehicle has proper grounding and does not have any outstanding electrical/functional issue prior to installation.
- To avoid short circuit, it is recommended to pull-out related fuses before installation and put them back when installation is complete.
- Only locate necessary wires related to the installation (most required wiring are under driver dash/kick panel areas) and connect to the unit according to the wiring diagram. Use a Multimeter to verify and confirm wire’s function, polarity before connecting or disconnecting. We strictly prohibit testing or modifying the vehicle’s ECU, airbag and ABS systems.
- Begin function tests on the system after verifying and ensuring all wires have been connected correctly and insulated properly.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO NOT power up the module before it is properly grounded. Should the unit be powered before being grounded, serious damage to internal components could occur.</td>
</tr>
</tbody>
</table>
CONNECTIONS

CONTROLLER WIRING DIAGRAM

Jumper Settings:

<table>
<thead>
<tr>
<th>Default Settings</th>
<th>Optional Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>JP1 Neg.(-) Door Trigger</td>
<td>Pos.(+) Door Trigger</td>
</tr>
<tr>
<td>JP2 Ground-When-Armed</td>
<td>Ground-When-Disarmed</td>
</tr>
<tr>
<td>JP3 Single Unlock Pulse</td>
<td>Double Unlock Pulses</td>
</tr>
<tr>
<td>JP4 Horn Output</td>
<td>Siren Output</td>
</tr>
</tbody>
</table>

Legend:

- Input
- Positive Type
- Frequency Type
- Output
- Negative Type
- In-Line Fuse

WARNING: Manufacturer/Distributors of this product will not be responsible for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the device. This device must be installed by a certified technician for this guide has been written for properly trained technicians; a certain level of skill & knowledge is therefore assumed. Review this installation guide and vehicle's service manuals before install.
### MAIN HARNESS WIRING DESCRIPTIONS

#### Wiring Description:

<table>
<thead>
<tr>
<th>Color</th>
<th>Type</th>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
<td>OUTPUT</td>
<td>500mA</td>
<td>Trunk Release</td>
</tr>
<tr>
<td>Grey</td>
<td>OUTPUT</td>
<td>7.5A</td>
<td>2x Parking Light</td>
</tr>
<tr>
<td>Red</td>
<td>INPUT</td>
<td>15A</td>
<td>Battery +12V</td>
</tr>
<tr>
<td>Green</td>
<td>OUTPUT</td>
<td>15A</td>
<td>Lock</td>
</tr>
<tr>
<td>Blue</td>
<td>OUTPUT</td>
<td>15A</td>
<td>Unlock JP3</td>
</tr>
<tr>
<td>Black</td>
<td>INPUT</td>
<td>15A</td>
<td>Ground</td>
</tr>
<tr>
<td>Purple</td>
<td>OUTPUT</td>
<td>500mA</td>
<td>Horn Control JP4</td>
</tr>
</tbody>
</table>

- **Brown**: Connect to the negative side of the trunk release trigger. This output will provide 1 second pulse when UNLOCK button is pressed for 2 seconds. (This function is disabled when ACC input is ON)
- **Grey**: Connect to the positive side of left/right parking lights or the hazard light switch for same effect.
- **Red**: Connect to a +12v source. Ensure that the OEM source wire used is fused for more than 15A. **Note**: When no suitable +12V source available (where current capacity is less than 15A) use vehicle’s interior fuse junction box or route directly from battery B+ connection.
- **Green**: Connect this output directly to the negative-triggered door lock signal wire.
- **Blue**: Connect this output directly to a negative-triggered door unlock signal wire. **Note**: This system outputs a single unlock pulse by default. Jumper (JP3) provides a double unlock pulses output option for vehicles that require a two consecutive unlock-pulse to unlock/disarm or to bypass the Driver Door Priority Unlock function to unlock all doors.
- **Black**: Connected to a bare, unpainted metal part of the vehicle chassis. It is recommended to use a factory ground point bolt rather than a self-tapping screw. Screws tend to loosen or rusted over time and leading to erratic electrical problems.
- **Purple**: Connect to the negative side of horn for audio notification. **Note**: This system is programmed for muted Lock/Unlock operation by default. If audio notification is desired for arming and disarming; connect Horn Control output to a siren* and change the jumper setting (JP4) to Siren Output option (Refer to Horn or Siren Mode in Programmable Features). **Note**: If siren control is a positive type or require more than 500mA to operate; add a relay according to the diagram on the right to convert output to a positive type.

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*Siren not included
ACCESSORY HARNESS WIRING DESCRIPTIONS

Wiring Description:

Ensure all connections are completed and properly secured prior to connecting the wire harnesses to the module.

- INPUT - (26 AWG) Shock Sensor / Unlock Input OPTIONAL

Connect to the optional Shock Sensor or to a manual unlock trigger input. (See Programmable Features)

White OUTPUT — 500mA Starter Kill Relay Control JP2 OPTIONAL

(Starter Kill Relay is not required if installed with AK-PSB05)
Depending on jumper (JP2) selection this output can be used for:

Starter Kill Relay Control (Default) – Also known as Ground-When-Armed. While armed (Smart Key not detected or LOCK button pressed) this output provides a GND signal to disable the starter circuit only when alarm is triggered. Connect the Starter Kill Relay according to the wiring diagram on the right.

Ground-When-Disarmed – Provides a GND signal while disarmed.
(Smart Key is detected or UNLOCK button pressed) This output can be used as an enable signal to an immobilizer bypass or known as Ground-When-Running. Alternatively this output can connect to any system that requires an input signal when a Smart Key is sensed.

Purple OUTPUT ~ 100mA Push-Start Module Control OPTIONAL

Connect to the "Controller Enable Input" on the optional Engine Push-Start Ignition Controller. This output provides an encrypted signal to the Engine Push-Start Ignition controller only when system sense a valid Smart Key or disarmed via the UNLOCK button or from the Bypass Transponder Card.

Brown INPUT + Brake REQUIRED

Connect to the brake pedal switch that output +12v when brake is applied, GND or float when released.
Note: This input is required for Smart Key programming and Ignition-Controlled Lock function.

Blue OUTPUT — 100mA Window Closer Module Control / AUX OPTIONAL

Connect to the optional Auto Window Closer Module trigger input. Alternately it can be used as a remote activated auxiliary output, see more on Programmable Features section on configure this auxiliary output.

Green INPUT — Door Switch JP1 REQUIRED

Connect to vehicle’s negative-triggered "door open" signal wire directly. Change jumper (JP1) to Positive Door Trigger if door switch is a positive-triggered type.

Red INPUT + ACC REQUIRED

**Required for System Operation** This input must be connected to a +12v source when vehicle is running. Note: With this input active, controller will stop search for the Smart Keys to conserve key's battery and avoid unintended lock actuation while the vehicle is running.
INSTALLATION

INSTALLATION OVERVIEW

Use following steps as a guide to install this system:

2. Review and set controller jumper settings according to requirements.
3. Connect Main and Accessory Harness. Pre-position antennas and antenna wiring.
4. Verify smart keys and bypass transponder card function/range then route and secure antennas to final position.
5. Power ON the system and set programmable features.
6. Mount LED, secure controller and close-up installation.

INSTALLATION NOTES

- For vehicles equipped with factory or aftermarket alarm/remote start, it is possible to install this system without the anti-theft alarm and remote start functions. (Refer to User Manual on disabling Alarm Function) Connect only Battery, Ground, Lock, Unlock, ACC, Brake, Door Switch and Antennas for basic Smart Keyless Entry function only.
- Ensure the ACC input is properly connected. It is required for remote-start function and to conserve the Smart Key's battery while vehicle is running. Avoid leaving the Smart Key inside the detection range for extended periods of time, this will shorten Smart Key's battery life as authentication stays constant between smart key and controller when ignition is off.
- It is highly recommended to connect the Door Switch input to the vehicle. This input is required for adjust user programmable functions and system will have a better remote sensing performance when it aware of the door status.

PROGRAMMABLE FEATURES

The following features can be adjusted according to customer's requirements:

**Horn or Siren Mode**

Under default JP4 “Horn Output” state; system will stay muted when locking and unlocking. Horn output will only sound in alarming and in programing modes. If the customer desires audio chirp notifications for vehicle’s arming status, connect a siren to the horn output (see Wiring Description) and change JP4 to “Siren Output” setting. Siren and Parking Lights outputs behave as following:

<table>
<thead>
<tr>
<th></th>
<th>Horn Output</th>
<th>Siren Output</th>
<th>Parking Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlock</td>
<td>-</td>
<td>2 x</td>
<td>2 x</td>
</tr>
<tr>
<td>Lock</td>
<td>-</td>
<td>1 x</td>
<td>1 x</td>
</tr>
<tr>
<td>Remote Start</td>
<td>-</td>
<td>1 x</td>
<td>1 x</td>
</tr>
</tbody>
</table>
PROGRAMMABLE FEATURES (CONT.)

Ignition-Controlled Door Lock
Enabled by default and controlled by Brake input, this function will provide:

- Auto Door **Locking** when ACC is turned ON while brake is applied.
- Auto Door **Re-Locking** when brake applied after door opened-then-closed.
- Auto Door **Unlocking** when ACC is OFF.

To **disable**/**enable** Ignition-Controlled Door Lock feature: Disconnect the Main harness (powering OFF the controller) then press and hold the brake pedal (apply +12v to Brake input) then reconnect the Main harness (powering ON the controller). Horn output will sound 2x if this feature is disabled or 1x if enabled.

Shock Sensor Function
Optional Dual-Stage Shock Sensor can be installed to provide additional security. (See User Manual for operation) Install the shock sensor near the center of the vehicle to sense vibrations from both the front and the back. Peel the adhesive and attach it to the vehicle’s chassis (metal) surface. Test the shock sensor's sensitivity by applying light impact from all sides of the vehicle, adjust if necessary. Keep in mind that increased sensitivity would yield more false alarms.

The Shock Sensor Input can be programmed (See User Manual) to accept a Ground signal that triggers Door Unlock function while the Smart Key remote is in the range:

- User have the option to set the system to unlock doors only when the shock sensor is triggered. This is useful for vehicle with shaved door handles or for user that prefer manually unlocking doors by a slight “tap/knock” on the driver door. To use this function, set shock sensor sensitivity to max and mount it close to the trigger area where user might be “tap/knock” on.
- Alternatively, connect the Shock Sensor/Unlock Input to an external Ground trigger switch that is mounted on the door handle to activate Unlock manually.

Auxiliary Output (Via Remote Start Button)
If Smart Key system is a stand-alone installation (without Push-Start) or the remote start function is not required, the **Blue (22AWG)** “Window Closer Module Control” output can be programmed as an auxiliary output (See User Manual). Press-and-hold the Remote Start Button will produce a 1 second (-)negative pulse for triggering an external device.

Note: Once in AUX mode, Auto Windows Closer will not function automatically when locking/arming.

ANTENNAS INSTALLATION

Antennas should be mounted on a **Non-Enclosed** and **Non-Metallic** material such as clear glass or plastic trim panels. Recommended placements for the Front-Antenna is on the top-left corner of the front windshield and bottom-left corner of the rear windshield for the Rear-Antenna. The Bypass-Antenna can be placed around the edge of the front windshield so it can sense the Bypass Transponder Card within one inch away from outside of the vehicle. Do not place antenna in locations that will be shield by metallic material.

Test for coverage and range after installation to determine the optimal locations for the antennas. You may adjust antenna positions to other possible placement locations as illustrated in the diagram next page. Use double sided tape to secure antennas after final positions are confirmed.
ANTENNAS INSTALLATION (CONT.)

Rear Antenna Placement
Front Antenna Placement
Bypass Antenna Placement

- Main Antennas 5 - 6 Feet Range
- Other Possible Main Antennas Locations
- Bypass Antenna 0.5 - 1 Inches Range

Antenna needs to be positioned away from any type of metallic material to achieve the best reception in all directions. Avoid strain/pull on antenna wiring and do not bend or overlap Main antenna with Bypass antenna.

FAQ

Why is key detection not working or the range is very sort?
Verify antenna position: Antenna may be on or close to metallic material, change position to verify range sensitivity. Check antenna wiring, do not pull on the antenna wires, make sure connectors are firmly seated. If remote failed to work both in proximity and manually press the buttons, follow key programming procedure to relearn all keys.

What does each LED color status mean?
See User Manual for more information on LED status detail.

How to install this system without the alarm function?
See User Manual for more information on disable alarm function.

How to enable/disable automatic door locking/unlocking function?
Please follow “Ignition-Controlled Door Lock” under the programmable features section to enable/disable this function.

How does Remote Start button on the Smart Key remote work?
Remote Start function require installing the optional Advanced Keys Push-Start System (AK-PSB05). Press the remote start button will send a remote start signal to the Push-Start Module via the Push-Start Module Control output. Please refer to Push-Start Installation manual for more info on remote start the vehicle.
KEY PROGRAMMING PROCEDURE

If required, use the following procedures to program a new set of Smart Key and/or Bypass Transponder Cards. Both set of Smart Keys or the Bypass Transponder Cards must be present and accessible during programming.

Enter Programming Mode
Disarm the system with a valid Smart Key or Bypass Transponder Card.

Using Ignition Key – Turn the Ignition Key from OFF to the ACC position then quickly turn the Ignition Key as follow:


Using Push-Start Button – Cycle ignition five times by first press the Push Button from OFF state to ACC state then quickly toggle the Push-Start button as follow:


System enters key programming mode by sound horn twice. Turn Ignition to OFF at any time will exit the programming mode and horn will sound three times.

Smart Key(s) Programming
1. After enter the Smart Key programming mode, LED indicator turns RED. You have 30 seconds window to program. If you do not wish to program any Smart Keys, press the brake pedal once to skip to Bypass Transponder Cards programming (Horn will sound once to confirm)

2. Press and hold the LOCK button on the first Smart Key until horn sound once.

3. Press and hold the LOCK button on the second Smart Key until horn sound once.

4. Smart Keys programming is now completed. System will automatically enter Bypass Transponder Cards programming mode.

Bypass Transponder Cards Programming
1. After enter the Bypass Transponder Card programming mode, LED indicator turns BLUE. You have 12 seconds window to program. To skip Bypass Transponder Cards programming, press the brake pedal once to end the programming mode with horn sound five(5) times.

2. Hold first Bypass Transponder Card against the reading field of the Backup Antenna until the horn sound once.

3. Repeat for the second Bypass Transponder Card until the horn sound five(5) times to indicate key programming has been successfully completed.

Note: Only one Bypass Transponder Card should be sensed in the reading field at a time. The sensing range for the Bypass Antenna is under an inch.

Horn Sound Status Summary Table

<table>
<thead>
<tr>
<th>Number of Horn Sound</th>
<th>Mode Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x</td>
<td>Remote / Key Registered</td>
</tr>
<tr>
<td>2 x</td>
<td>Entered Programming mode</td>
</tr>
<tr>
<td>3 x</td>
<td>Programming failed</td>
</tr>
<tr>
<td>5 x</td>
<td>Programming successful</td>
</tr>
</tbody>
</table>
CLOSING UP

- Connecting the wire harnesses and power ON the controller, check and confirm system operations (Refer to User Manual) then verify functions of the vehicle are in working order.

- Make sure all wiring connections are insulated properly. Place and secure control units to locations inside trim panels and bundle all loose wiring. Put back all trim panels.

- When mounting the controller unit in the vehicle, consider the location carefully. You should make sure that you avoid any location where the controller is exposed to moisture, extreme heat or interfere with moving parts on the vehicle which hampers driving.

- Explain all functions related to the end-user of this system.

REFERENCES INFORMATION

PRODUCT SPECIFICATIONS

Controller operating voltage range: ................................................................. 10 VDC – 16 VDC
Controller Stand by power: ................................................................................ ≤ 30mA @ 12 VDC
Avg. controller operating power: ..................................................................... ≤ 80mA@12VDC
Devices operating temperature range: .............................................................. -25°C – +85°C
Transmitter operating voltage range: ............................................................... 2 VDC – 4 VDC
Transmitter Stand by power: ............................................................................. ≤ 7 µA @ 3 VDC
HF operation frequency and range: ................................................................. 433.92MHz @ 25 - 30 Meters
LF operation frequency and range: ................................................................. 134.2 KHz @ 1.5 - 2 Meters
Smart Key Fob Dimensions: ........................................................................... 65mmL x 44mmW x 6mmH
Base Controller Dimensions: ........................................................................... 115mmL x 90mmW x 30mmH

PRODUCT REGISTRATION

Installer of this system is requested to fill out the following information as a proof of installation to the end-user of this system. For manufacture warranty to take immediate effect please request the end-user to update the following information at: http://www.advancedkeys.com/registration.htm

<table>
<thead>
<tr>
<th>Company / Installer Name:</th>
<th>Phone Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installer Address:</td>
<td>Date of Installation:</td>
</tr>
<tr>
<td>Vehicle Manufacturer:</td>
<td>Model:</td>
</tr>
<tr>
<td>Year:</td>
<td></td>
</tr>
<tr>
<td>Front Antenna Location:</td>
<td>Rear Antenna Location:</td>
</tr>
<tr>
<td>Bypass Antenna Location:</td>
<td></td>
</tr>
<tr>
<td>Interface/Bypass Module Used: YES □ NO □</td>
<td>All Smart Keys and Bypass Cards Working: YES □ NO □</td>
</tr>
<tr>
<td>If YES specify bypass make/model:</td>
<td>Push-Start Module Installed: YES □ NO □</td>
</tr>
<tr>
<td>Antenna Mounted on Windshields: YES □ NO □</td>
<td>Reviewed Product Operation with End-User: YES □ NO □</td>
</tr>
<tr>
<td>Additional Comments:</td>
<td></td>
</tr>
</tbody>
</table>

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**WARRANTY**

This warranty from the manufacturer Advanced Keys Incorporated (“AK”) warrants the original purchaser AK’ products from AK website or authorized distributor of their products the permission to return product that is defective, suffering poor workmanship or DOA dead on arrival to AK for discretionary repair based on the type of failure. Failure of products cannot be exacerbated by the end user and failures must be under normal use with proper installation by a certified, experienced installed for which this warranty covers. Should a defective product be found, installation costs incurred to install remove and troubleshoot the device will remain solely with the end user and AK will not be responsible for these or associated costs with the exception of the defective product in question. Repair or exchange costs for defective products will be the responsibility AK in addition to shipping costs associated with shipping the unit back to the customer but not from the customer, external costs to this AK is not responsible for. Loss, theft, misuse, neglect, accidents, alterations, defacement, shipping – AK cannot be held responsible for the above end user imposed damage to is products. Customers in shipping areas prone to loss, theft, damage should request shipping insurance to be added at cost the user, installer, distributor or dealer. Liability AK for repair or exchange will not exceed the MSRP of the product in question and thus limited to that cost. This warranty is limited to a time period no greater than 12 months from the original date of purchase from AK and cannot be extended. This warranty exists with the unit and not the vehicle or user. Repair units or exchange units are covered from the date of return to the user for the duration not exceeding 12 months. This warranty is in lieu of all other AK warranties or liabilities. Warranty claims by the user or installer must be submitted within a period of 18 months of the date of purchase. The product in question must be discovered damaged or defective within 12 months of purchase for warranty eligibility however a claim must be submitted within 18 months of the date of purchase. Dealers/Installers/Distributors: The above applies to customers of AK authorized 3rd Party sellers which are defined as end users of the above parties. The above parties may provide an extended warranty provisions or add other warranties however AK is not a party to these provisions and thus not responsible for any warranties extended beyond this warranty. The above parties will not decrease, shorten, mitigate nor void this warranty provided by AK to the end user. AK cannot provide a warranty guarantee of functionality, installation, shipping delivery or merchantability between the end user and the above parties. Users are encouraged to work directly with these parties. Advanced Keys will within reason, make attempts to ensure its products are merchantable for its distributors/installers/dealers. Product damaged through shipping, abuse, neglect, alteration, mishandling, accident, defacement or “act of God” is not the responsibility of AK. Defective or DOA product will be replaced/repair at no cost to the above parties with the exception of freight to AK repair center of which the above parties are responsible for. Freight will be paid by AK for repaired/replaced product back to the above parties. Customers that have purchased from the above parties are eligible for a 12 month warranty however must work with above parties of which they purchased the unit from to determine warranty eligibility. AK will assist its direct customers. Warranty Return: To determine if your unit is eligible for repair contact the representative you purchased the unit from and request warranty repair/exchange. If you cannot reach your sales representative then please contact AK. You will require date and proof of purchase and description of the defect. Do not send units for repair without an approved warranty claim.

**FCC COMPLIANCE**

This device has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interface received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment and such modifications could void the user’s authority to operate the equipment.

**CANADIAN COMPLIANCE**

This Class B digital apparatus complies with Canadian ICES-003
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.