Installation Procedure

This product is compatible with most Directed Electronics Security, Remote Start and hybrid systems that are ESP2 compatible (3 or 4-pin). Non-compatible systems include 3001L and older AM1/AM5 models.

Please read the following before proceeding

1. Customer Information required:
    *   Record the customer information requested in step 4a of this procedure. The module ID # is provided on a sticker which can be affixed to the space provided in step 4a.
    This information is required for final verification/activation of the VSM200/250 or DSM200/250.

2. Installation Points:
    *   Install and test the security/remote start system first using the associated guides and wiring diagram. If using an existing system, verify it is fully functional before installing the Directed SmartStart module.
    *   For 3000-series or standalone SmartStart systems with no remote control, test the installed system via the SmartStart activation portal.
    *   Mount the SmartStart module as high as possible in the vehicle (the engraved side faces up for GPS devices). Mount with minimal

obstructions that can affect communications and within reach of the main Directed system using the provided cables (do not extend).

The module's signal strength (RSSI) can be viewed in the activation portal after a successful transmission test.

-50 to -90 dB = good signal strength
-91 to -100 dB = borderline/inconsistent signal strength
> -100 dB = weak, insufficient signal strength

*   DO NOT connect the SmartStart module until the final programming of the Remote Start main unit and verification of security/remote start system operations are completed.
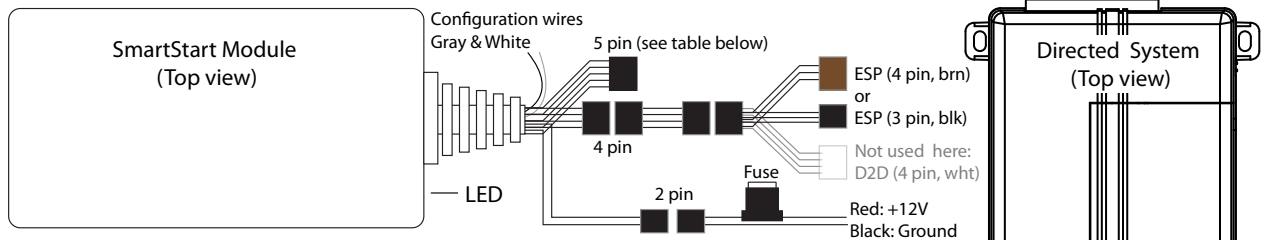
⚠ **CAUTIONS**

The white plug is **ONLY** for RSR (Remote Start Ready) and RXT applications using certain Xpresskit interfaces (go to www.xpresskit.com for details on supported devices & vehicles).

For systems with combined 4-pin ESP/D2D ports, you **CANNOT** use an interface module in D2D mode when using a SmartStart module. You must use W2W on the bypass module.

DO NOT connect the black 3-pin ESP connector to white Door Lock port on Directed systems.

There should **NEVER** be more than one data plug connected from the 3-way harness.

Wiring Schematic

5-pin Cable		
Pin #	Wire Color	Connection/Description
1	White/Blue	(-) RS (Remote Start)/AUX output
2	Brown	(-) Factory horn/Alert input
3	Green	(-) Lock
4	Blue	(-) Unlock
5	Red/White	(-) Trunk/AUX output

Note: The analog output wires are only active if the device has been configured for Analog Wire mode in the installation portal.

NOTE: The appearance and connector/port arrangement on the Directed/Avital/Xpresskit system may differ to the examples shown .

3. Install the VSM200/250 or DSM200/250 using the information in the wiring diagram and steps (Note CAUTIONS during installation).

   a. Configuration Wires: Connect the loose gray or white configuration wire(s) to match the desired application (see table below).

MODE	GRAY WIRE	WHITE WIRE
ESP2	Open	Open
D2D, RSR/RXT	GND	Open
Autostart/AstroStart	Open	GND

   b. Connect the serial data cable and adapter to the correct port of the main module. For D2D RSR/RXT applications, connect the serial data cable and adapter to Xpresskit module.

   c. Complete the main power connections.

   d. When power is connected, the module begins an initialization procedure that may take several minutes. During this procedure, progress is reported via the flashing Amber/Green LEDs next to the module cable. When both LEDs turn on solid, the initialization procedure is completed (See *Status LEDs* for a description of the various LED states).

4. Verify and Activate the SmartStart module:
   The following steps need to be performed for the Verification/Activation of the Directed SmartStart module.

   a. Collect Customer Information:

   Customer's Full Name:

   Customer's E-mail Address:

   Customer's mobile phone # and phone carrier

   Record/place Module ID # here:

   New Account: ☐   Existing Account: ☐

   If this is an existing account, are you:

       adding a new system: ☐

       or replacing an existing one: ☐

   b. Log on to: www.directechs.com, and click on the SmartStart link.

   c. Follow the on-screen directions to activate and test a SmartStart device. If this is the customer's first SmartStart system, you will be prompted to enter their information as collected in step 4a.

   d. Set configuration for commands to match the installed application.

   e. Test the SmartStart system from the website using the supplied function links.

   f. The customer is sent log-in information via e-mail. After logging into the site at www.mysmartstart.com, they must select and pay for the service plan in order to start using the system.

Status LEDs

Amber LED states:
- Off: No cellular communication. Check connections such as module harness.
- Flashing slowly: The module is seeking cellular system communication.
  If no cell coverage is available the Amber LED continues to flash slowly, move the vehicle to a location with better reception.
- Flashing quickly: The module is negotiating with a cellular system.
- On solid: Communication successfully established.

Green LED states:
- Off: Communication not established with the remote start main unit or no serial device is connected.
  Check connection at the Bitwriter port, once connected properly the LED turns on after resetting the power to the SmartStart module.
- On solid: Communication successfully established with the remote start main unit.

Please return this guide and point the customer to steps 4a and 4f after successfully completing the installation as it contains details required for account setup.

Notes: SmartStart response time can vary depending on cellular coverage and network congestion. Operating temperature range: -30°C to + 70°C.

Additional information can be found at: www.directechs.com

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