FIRSTECH CM7000 Remote Start Plus Security Controller Brain

FIRSTECH CM7000 Remote Start Plus Security Controller Brain Installation Guide

Contents

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FTI-STK1: Vehicle Coverage and Preparation Notes

Make	Model	Year	Install	CAN	IMMO	BCM	Clutch	I/O Changes
DL-SUB9	Subaru Ascent STD KEY AT (USA)	2019-22	Type 4	40-Pin	A	DSD	N/A	N/A

Covered vehicles use BLADE-AL-SUB9 firmware and the following required accessories: Weblink Hub & ACC RFID1. Flash the module and update the controller firmware. **Please follow the directions for RFID programming before attempting to program the BLADE module to the vehicle.**

- **CAN:** Type 4 CAN connections are made using the 40-Pin BCM connector and require connecting the white 2-pin female connector to the black male 2-pin connector at marker [D] of the illustration.
- **Immobilizer:** Type A IMMO requires connecting the white male and female 2-pin connectors at marker [C] of the illustration.
- **Lights:** Parking lights are pre-wired in the FTI-STK1 harness. Replace the green/white wire of the CM I/O connector with the pre-terminated green/white wire of the harness.
- **ACC-RFID1 (REQUIRED):** SUB9 firmware does not provide immobilizer data; an ACC-RFID1 is therefore required for remote start.
- **2nd START:** The FTI-STK1 harness is pre-wired with a red/black 2nd START output (not required in TYPE 2). Cut and insulate the provided wire to prevent short circuits when not used.
- **I/O Changes:** None required.

Advisory 1: Program ACC-RFID1 before attempting to program the BLADE module to the vehicle.

Advisory 2: Secure all 2-pin connections, both used and unused, to the main harness body.

FTI-STK1: Installation and Configuration Notes

- **A:** REQUIRED ACCESSORY
- **B:** ADAPTER NOT REQUIRED
- **C:** REQUIRED CONFIGURATION (TYPE A IMMO)
- **D:** REQUIRED CONNECTION
- **E:** NO CONNECTION

Feature Coverage

IMMOBILIZER DATA	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PRIORITY UNLOCK	TRUNK/HATCH RELEASE	TACH OUTPUT	DOOR STATUS	TRUNK STATUS	BRAKE STATUS	E-BRAKE STATUS	A/M ALRM CONTROL FROM OEM REMOTE	A/M RS CONTROL FROM OEM REMOTE	AUTO LIGHT CTRL

Installation Diagram

The diagram illustrates the connections required for the FTI-STK1 – AL-SUB9 – Type 4 for the 2019-22 Subaru Ascent STD KEY AT (USA). It includes the ignition switch assembly and BCM/Fuse Box connections. A ground connection is required as noted in the illustration.

LED Programming Error Codes

- 1x RED = Unable to communicate with RFID or immobilizer data.
- 2x RED = No CAN activity. Check the CAN wire connections.
- 3x RED = No ignition detected. Check the ignition wire connection and CAN.
- 4x RED = Required ignition output diode not detected.

Install Guide

Cartridge Installation

1. Slide cartridge into unit. Notice button under LED.
2. Ready for Module Programming Procedure.

Module Programming Procedure

1. For this installation, the Weblink HUB is required.
2. Remove OEM key 1 from keychain.
3. Flash the module using the Weblink HUB. Follow the on-screen instructions to complete the keyfob reading process.
4. **WARNING:** Do not press the module programming button. Connect power first. Connect module to vehicle.
5. Using OEM key 1, turn key to ON position.
6. Wait, LED will turn solid BLUE for 2 seconds.
7. Turn key to OFF position.
8. Module Programming Procedure completed.

Specifications

Component	Description
Weblink HUB	Required for module programming
ACC-RFID1	Required for remote start
CAN Connection	40-Pin BCM connector

FAQ

- **What is the purpose of the ACC-RFID1?**
  The ACC-RFID1 is required for remote start as the SUB9 firmware does not provide immobilizer data.
- **Why is the Weblink HUB necessary?**
  The Weblink HUB is required for flashing the module and completing the keyfob reading process.
- **What should I do if the LED flashes red during programming?**
  Refer to the LED Programming Error Codes section to diagnose the issue based on the number of red flashes.

FTI-STK1: Vehicle Coverage and Preparation Notes

Make	Model	Year	Install	CAN	IMMO	BCM	Clutch	I/O Changes
DL-SUB9 Subaru	Ascent STD KEY AT (USA)	2019-22	Type 4	40-Pin	Type A	DSD	N/A	Green White/Blue N/A

- Covered vehicle use BLADE-AL-SUB9 firmware and the following required accessories, Weblink Hub & ACC RFID1.
- Flash module, and update the controller firmware. Please follow the directions for RFID programming before attempting to program the BLADE module to the vehicle.
- CAN: Type 4 CAN connections are made using the 40-Pin BCM connector and require connecting the white 2-pin female connector to the black male 2-pin connector at marker [D] of the illustration.
- Immobilizer: Type A IMMO requires connecting the white male and female 2-pin connectors at marker [C] of the illustration.
- Lights: Parking lights are pre-wired in the FTI-STK1 harness. Replace the green/white wire of the CM I/O connector with the pre-terminated green/white wire of the harness.
- ACC-RFID1 (REQUIRED): SUB9 firmware does not provide immobilizer data, an ACC-RFID1 is therefore required for remote start 2nd START: The FTI-STK1 harness is pre-wired with a red/black 2nd START output (not required in TYPE 2), cut and insulate the provided wire to prevent short circuits when not used.
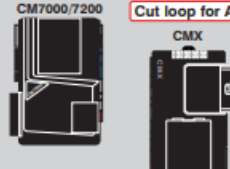- I/O Changes: None required

1. Advisory 1: Program ACC-RFID1 before attempting to program the BLADE module to the vehicle. Advisory
2. Secure all 2-pin connections, both used and unused, to the main harness body.

FTI-STK1: Installation and Configuration Notes

- REQUIRED ACCESSORY
- ADAPTER NOT REQUIRED
- REQUIRED CONFIGURATION (TYPE A IMMO)
- REQUIRED CONNECTION
- NO CONNECTION

FTI-STK1 – AL-SUB9 – Type 4 2019-22 Subaru Ascent STD KEY AT (USA)

LED Programming Error Codes

Module LED flashing RED during programming

- 1x RED = Unable to communicate with RFID or immobilizer data.
- 2x RED = No CAN activity. Check the CAN wire connections. 3x RED = No ignition detected. Check the ignition wire connection and CAN.
- 4x RED = Required ignition output diode not detected.

INSTALL GUIDE

CARTRIDGE INSTALLATION

1. Slide cartridge into unit. Notice button under LED.
2.
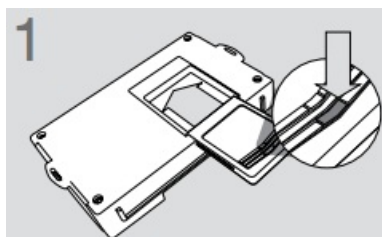
Ready for Module Programming Procedure.

MODULE PROGRAMMING PROCEDURE

1. For this installation, the Weblink HUB is required.
2.

   Remove OEM key 1 from keychain.

3. Place all other keyfobs at least 1 foot away from the Weblink HUB. Failure to comply may result in damage to other keyfobs or interfere with the keyfob reading process.
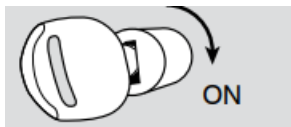
4. Flash the module using the Weblink HUB. Follow the on screen instructions to complete the keyfob reading process.
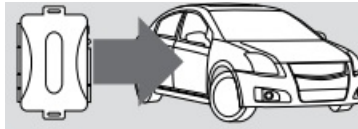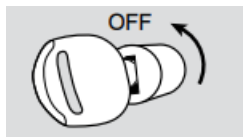
5. WARNING:
   - Do not press the module programming button.
   - Connect power first. Connect module to vehicle.

6. Using OEM key 1, turn key to ON position.
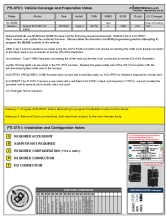
7. Turn key to OFF position.

8. Module Programming Procedure completed.

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Documents / Resources

FIRSTECH CM7000 Remote Start Plus Security Controller Brain [pdf] Installation Guide
CM7000, CM7200, CM-X, CM7000 Remote Start Plus Security Controller Brain, CM7000, Remote Start Plus Security Controller Brain, Start Plus Security Controller Brain, Security Controller Brain, Controller Brain, Brain

References

- **User Manual**