

NOTE TO THE INSTALLER:

THIS GUIDE IS INTENDED FOR USE WITH AN 1100F OR 1100X THAT HAS BEEN UPDATED TO AN 1100FM USING THE DIRECTLINK UPDATER TOOL. DIRECTLINK UPDATER SOFTWARE IS AVAILABLE AT WWW.DIRECTECHS.COM.

WARNING! READ MANUAL PRIOR TO INSTALLATION

PROGRAMMING INSTRUCTIONS

PRODUCT DESCRIPTION

The 1100X/F-FM interface module is used when installing remote start products in Ford/Mazda vehicles equipped with a factory immobilizer. The 1100X/F-FM allows for easy interfacing between the remote start and the factory immobilizer, while maintaining the integrity of the OEM system. The factory transponder-based anti-theft system uses a small electronic chip hidden in the key to send a code to the vehicle's transceiver when the ignition is energized. The key must be placed in the ignition and turned to the RUN position. This energizes a coil surrounding the key, which in turn energizes the chip, which sends a code to the vehicle. If the vehicle does not detect the code being sent, the vehicle will start and then immediately shut off or will just crank, and the anti-theft light will flash. The 1100X/F-FM provides a valid code to the vehicle whenever it is remote started, but does not affect the immobilizer system during normal vehicle operation; the immobilizer system remains fully functional.

STEP 1: SELECT INSTALLATION MODE

Complete the wire connections to the vehicle and to the remote starter/alarm system. Connect all harnesses including the 4-pin power harness. The module LED will now flash green intermittently. (Note: if this condition is not present, your module may need to be reset to the factory default).

1. Press and release the programming switch to select installation mode.

Press the switch to alternate between the two modes (only standard mode should be used).

- 1 flash, pause, 1 flash, pause = (This mode is not used)
- 2 flashes, pause, 2 flashes, pause = Standard installation mode

2. Once your installation mode is selected, press and hold the programming button until the LED displays a solid green light for two seconds. Your installation mode is now programmed. Please proceed to step 2.

NOTE: Should you wish to change the installation mode, follow the "Factory Reset" instructions.

STEP 2: DETERMINE TRANSPONDER TYPE

Refer to the transponder cross reference chart to determine transponder type and programming procedure.

1. If the transponder type is 1, proceed to 2A.
2. If the transponder type is either 2 or 3, proceed to 2B

2A: Transponder Type 1

1. Insert the vehicle key into the ignition.
2. Turn ignition to the "ON" position and wait for the LED to illuminate green for two seconds.
3. Programming is complete.

2B: Transponder Type 2 or Type 3

IMPORTANT: Both keys are required to complete the programming procedure. A maximum 5 second delay between each step is permitted. If the delay is exceeded, the vehicle will not allow programming to continue. The programming procedure must be restarted.

1. Insert the 1st key into the ignition. Turn ignition to the "ON" position, the LED will illuminate green. Wait for the car security light to turn off, turn ignition to the "OFF" position and remove the key.
2. Insert the 2nd key into the ignition. Turn ignition to the "ON" position and wait for the car security light to turn off. Turn ignition to the "OFF" position and remove the key.
3. Press and release the programming button once and start the vehicle through use of the remote controlled starter OR "jump" ignition. Wait for LED to illuminate green for two seconds. Programming is complete.

LED DIAGNOSTICS

1. During STEP 2, if the LED flashes red this indicates the wire connections are incorrect.
2. Once programming has been completed, if the LED flashes red the module failed to learn correctly. Reset module and repeat the programming procedure.
3. When the remote starter is engaged, the led will flash green to indicate the current transponder mode as follows:

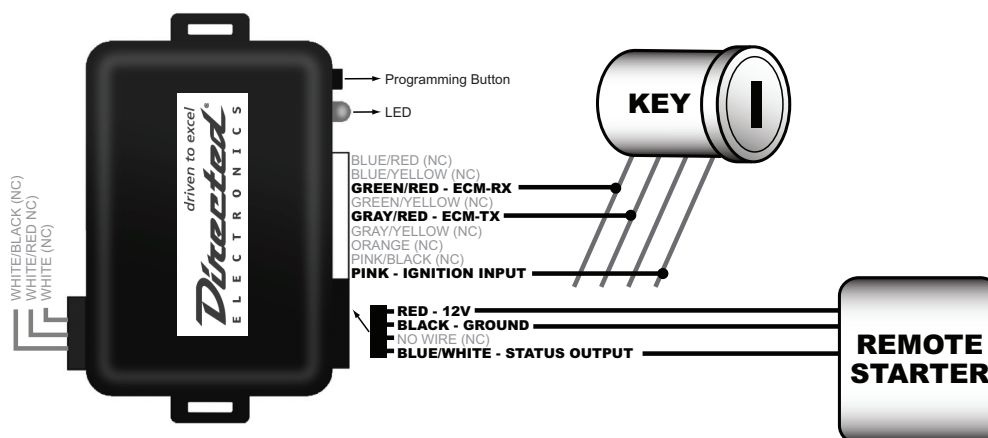
1 x green flash = PATS 1 2 x green flashes = PATS 2 3 x green flashes = PATS 3

If the LED remains illuminated red, the device is incorrectly programmed.

FACTORY RESET

1. Unplug all connectors from the module.
2. Press and hold the programming button while inserting the 4-PIN standard connector.
3. The LED will begin to flash red. Immediately release the programming button. The LED will turn on solid for 2 seconds to confirm module reset.
4. Plug remaining connectors and return to: STEP 1: SELECT INSTALLATION MODE.

WIRING DIAGRAM



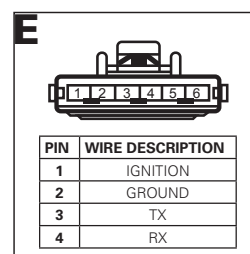
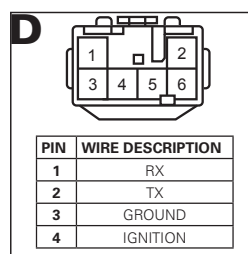
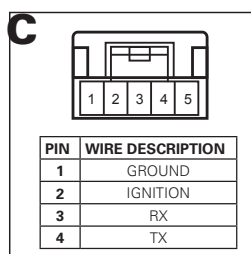
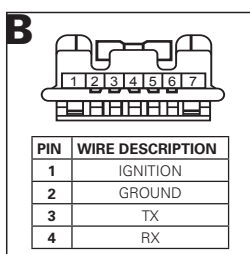
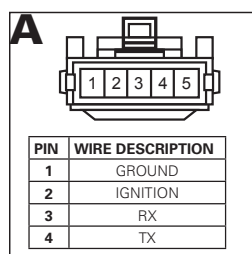
NOTICE: The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for properly trained technicians; a certain level of skill and knowledge is therefore assumed. Please review the Installation Guide carefully before beginning any work.

VEHICLE COMPATIBILITY CHART

Make	Model	1998	1999	2000	2001 Before 07/24/00	2001 After 07/24/00	2002	2003	2004	2005	2006	2007
Ford	Contour	1-B	1-B	1-B	1-B	1-B						
Ford	Crown Victoria	1-A	1-A	1-A	1-A	1-A	1-A	3-C	3-C	3-E	3-E	
Ford	Escape			2-B	2-B	2-B	2-B	2-B	2-B	3-B	3-B	
Ford	Excursion			1-A	1-A	1-A	1-A	1-A	1-A	1-A		
Ford	Expedition		1-A	1-A	1-A	1-A	3-B	3-B	3-B	3-B	3-B	
Ford	Explorer	1-A	1-A	1-A	1-A	1-A	3-B	3-B	3-B	3-B	3-E	
Ford	F150		1-A	1-A	1-A	1-A	1-A	1-C	3-B	3-B	3-B	
Ford	Five Hundred									3-E	3-E	
Ford	Focus			2-B	2-B	2-B	2-B	2-B	2-B	2-B	3-B	
Ford	Freestar								3-C	3-C	3-C	
Ford	Freestyle									3-E	3-E	
Ford	Fusion										3-E	
Ford	GT										3-B	
Ford	Mustang	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A	3-E	3-E	
Ford	Ranger		1-A	1-A	1-A	3-C	3-C	3-C	3-C	3-C	3-C	
Ford	Sport Trac			1-A	1-A	1-A	3-B	3-B	3-B	3-B	3-E	
Ford	Taurus	1-A	1-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	
Ford	Thunderbird						2-B	3-C	3-C	3-C		
Ford	Windstar		1-A	1-A	1-A	3-A	3-A	3-C				
Lincoln	Aviator							3-B	3-B	3-B		
Lincoln	Blackwood						3-C					
Lincoln	Continental	1-A	1-A	1-A	1-A	1-A	1-A					
Lincoln	LS			2-B	2-B	2-B	2-B	3-B	3-B	3-B	3-B	
Lincoln	Mark LT										3-B	
Lincoln	Navigator		1-A	1-A	1-A	1-A	3-B	3-B	3-B	3-B	3-B	
Lincoln	Town Car	1-A	1-A	1-A	1-A	1-A	1-A	3-C	3-C	3-E	3-E	
Lincoln	Zephyr										3-E	
Mazda	3								3-D	3-D	3-D	
Mazda	5										3-D	
Mazda	6							3-D	3-D	3-D	3-D	
Mazda	B3000		1-A	1-A	1-A	3-C	3-C	3-C	3-C	3-C	3-C	
Mazda	B4000		1-A	1-A	1-A	3-C	3-C	3-C	3-C	3-C	3-C	
Mazda	CX7											3-D
Mazda	Miata MX5										3-D	
Mazda	RX8							3-D	3-D	3-D	3-D	
Mazda	Tribute				2-B	2-B	2-B	2-B	2-B	3-B	3-B	
Mercury	Cougar		1-B	1-B	1-B	1-B	1-B					
Mercury	Grand Marquis		1-A	1-A	1-A	1-A	1-A	3-C	3-C	3-E	3-E	
Mercury	Marauder							3-C	3-C			
Mercury	Mariner									3-B	3-B	
Mercury	Milan										3-E	
Mercury	Montego									3-E	3-E	
Mercury	Monterey								3-C	3-C	3-C	
Mercury	Mountaineer	1-A	1-A	1-A	1-A	1-A	3-B	3-B	3-B	3-B	3-E	
Mercury	Mystique	1-B	1-B	1-B								
Mercury	Sable	1-A	1-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	

Ex: 3-E = PATS 3 with Type E connector.

VEHICLE SPECIFIC TRANSPONDER CONNECTOR TYPE



LIMITED ONE-YEAR CONSUMER WARRANTY

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security accessory product, Directed Electronics, (hereinafter "DIRECTED") promises to the original purchaser, to repair or replace (at DIRECTED's election) with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the "Part"), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer in the United States; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer's name, address, telephone number, the authorized licensed dealer's name, date of purchase and complete product and Part description. This warranty is non-transferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or if the Part has been damaged by accident, abuse, unreasonable use, neglect, water, theft, improper service, installation or other causes not arising out of defect in materials or construction. This warranty is automatically void if any Part has had the serial number defaced, altered, or removed. This warranty is automatically void if the Part has had Repair Service performed by anyone other than the Directed Repair Department. This warranty does not cover damage to any Part caused by installation or removal of the Part or any system related thereto. This warranty does not cover labor costs for the removal or reinstallation of the Part.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT PERMITTED BY LAW; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED HEREBY DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING DEALERS OR INSTALLERS. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE PART. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State. DIRECTED does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this Part.