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E L E C T R O N I C S

WARNING! READ MANUAL PRIOR TO INSTALLATION

1100X INSTALLATION GUIDE
MODE 1

PRODUCT DESCRIPTION

The 1100X interface module is used when installing remote start products in Toyota/Lexus vehicles equipped with a factory immobilizer. The 1100X 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 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.

PROGRAMMING INSTRUCTIONS

STEP 1: SELECTS INSTALLATION MODE

This procedure determines the module will operate using a conventional manner using the ground when running signal.

CAUTION: For security purposes this step is programmable only once. Please ensure the proper mode is activated.

To change the installation mode, the module must be reset and repro-grammed (see Factory Reset procedure).

1. Complete wire connections to vehicle and insert harnesses into module.
2. Press programming button once or twice to select the installation type.
   The LED will flash green the same number of times to confirm selection.
   1 x green flash = Unused mode.
   2 x green flashes = Standard installation mode (for directed systems).

3. After selecting the correct mode, press and hold the programming button until the LED displays a solid green light.
4. The installation mode is now selected and programmed.

STEP 2: PROGRAMMING PROCEDURE MODE 1

1. Insert the vehicle key into the ignition and turn to "run" position.
2. The module LED will illuminate green to confirm learning procedure has been completed.
3. If LED illuminates red, remove key and follow LED diagnostic nstructions.
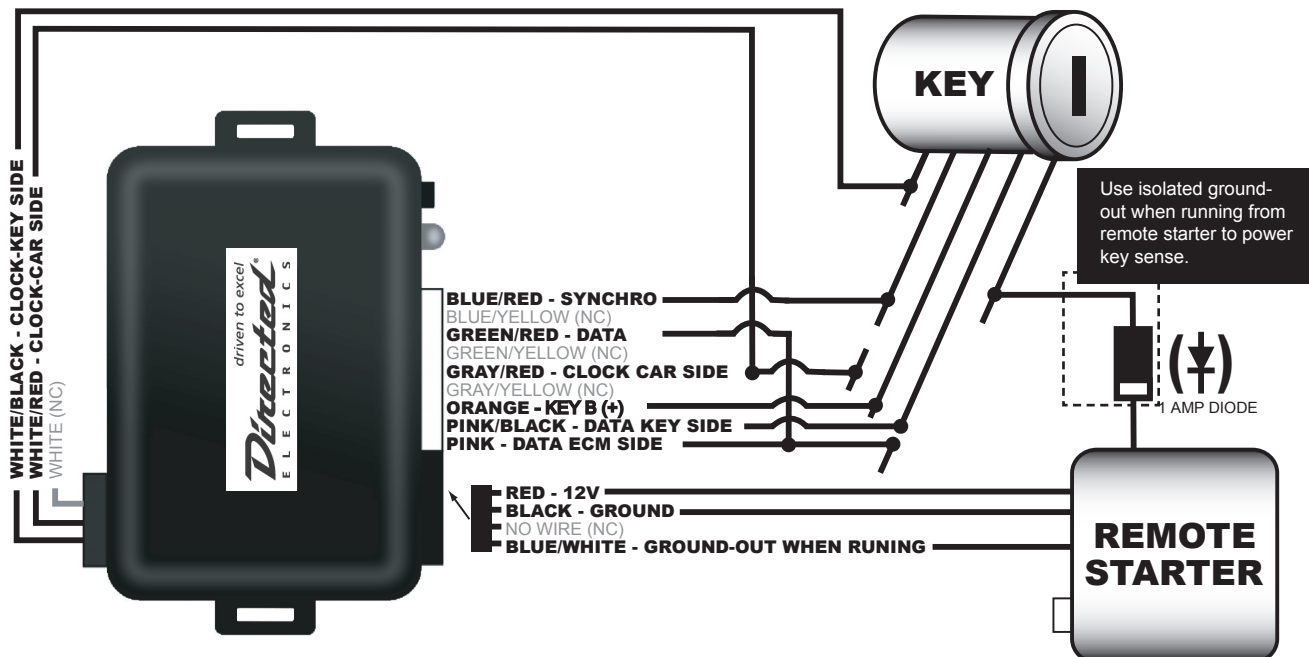
LED DIAGNOSTICS

1. During STEP 2, if the LED flashes red this indicates the wire connections are incorrect. Insure connections are soldered, no T-Taps or Scotch Locs
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 module has been correctly pro grammed.
   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 program ming 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.

MODE 1 WIRING DIAGRAM

Please refer to the Vehicle Wiring Cross Reference Chart to identify vehicle-specific pin locations & wire colors.

WHITE/BLACK - CLOCK-KEY SIDE
WHITE/RED - CLOCK-CAR SIDE
WHITE (NC)

BLUE/RED - SYNCHRO
BLUE/YELLOW (NC)
GREEN/RED - DATA
GREEN/YELLOW (NC)
GRAY/RED - CLOCK CAR SIDE
GRAY/YELLOW (NC)
ORANGE - KEY B (+)
PINK/BLACK - DATA KEY SIDE
PINK - DATA ECM SIDE

RED - 12V
BLACK - GROUND
NO WIRE (NC)
BLUE/WHITE - GROUND-OUT WHEN RUNING

KEY

Use isolated ground-out when running from remote starter to power key sense.

1 AMP DIODE

REMOTE STARTER

MODE 1 VEHICLE WIRING CROSS REFERENCE CHART*

IMMOBILIZER CONNECTOR

MODEL	YEAR	PIN	KEY B (+)	PIN	DATA	PIN	CLOCK	PIN	SYNCRO	PIN	GROUND (-)	KEY SENSE*	CONNECT.
Avalon	1998-1999	1	Light Green	2	Black/Red	3	Yellow	4	Green	5	White/Black	Red/Yellow*	A
Avalon	2000-2004	1	Black/White	2	Pink/Green	3	Blue/Orange	4	Blue/yellow	5	White/Black	Red/White*	A
Camry	1998-2001	1	Black/Yellow	2	Green/White	3	Red/Blue	4	Blue/Yellow	5	White/Black	Blue/Black*	A
Camry 4cyl.	2002-2005	1	Black/Red	4	Green/White	3	Red/Blue	5	Blue/Yellow	7	White/Black	Blue*	B
Camry 6cyl.	2002-2005	1	Black/Red	4	Green/White	3	Red/Blue	5	Blue/Yellow	7	White/Black	Blue*	B
ES300	1998-2001	1	Black/Yellow	2	Green/White	3	Red/Blue	4	Blue/Yellow	5	White/Black	Blue/Black*	E
ES300	2002-2003	1	Black/Red	4	Green/White	3	Red/Blue	5	Blue/Yellow	7	White/Black	Blue*	B
GS 300	1998-2005	1	Black/Red	2	Green/Black	3	Black/white	4	Blue/Red	5	White/Black	Yellow*	A
GS 400	1998-2000	1	Black/Red	2	Green/Black	3	Black/white	4	Blue/Red	5	White/Black	Yellow*	Ⓘ
GS 430	2001-2005	1	Black/Red	2	Green/Black	3	Black/white	4	Blue/Red	5	White/Black	Yellow*	A
Highlander	1999-2000	1	White/Blue	2	Grey/Red	3	Red/Black	4	Pink/Black	5	Brown	Yellow/Red*	Ⓘ
Highlander	2001-2003	1	White	4	Grey/Blue	3	Pink	5	Grey	7	White/Black	Blue*	B
IS 300	2001	1	Black/Red	2	Green	3	Purple	4	Pink	5	White/Black	Black/Yellow*	A
IS 300	2002-2005	1	Black/Red	2	Green/Black	3	Purple	4	Pink/Black	5	White/Black	Black/Yellow*	A
Land Cruiser	1998-2002	1	Black/Yellow	2	Blue/Black	3	Purple/Green	4	Red/Yellow	5	White/Black	Red/Black*	Ⓘ
LS 400	1998-2000	1	White	2	Red/White	3	Red/Black	4	Red	5	White/Black	Yellow*	Ⓘ
LX 470	1998-2002	1	Black/Yellow	2	Blue/Black	3	Violet/Green	4	Red/Yellow	5	White/Black	Red/White*	B
RAV4	2001-2003	5	Black/Red	2	Yellow/Green	4	Yellow	1	Yellow/Black	3	White/Black	Blue/Red*	C
RX 300	1999	1	Blue/White	2	Purple	3	Black	4	Grey	5	White/Black	Blue*	Ⓘ
RX 300	2000	1	Blue/White	2	Purple	3	Pink	4	Grey	5	White/Black	Blue*	Ⓘ
RX 300	2001-2003	1	Black/Red	2	Purple	3	Pink	4	Grey	5	White/Black	Blue*	Ⓘ
SC 300	1998-2000	1	Black/Red	2	Black/Orange	3	Blue	4	Green/Orange	5	White/Green	Yellow*	Ⓘ
SC 400	1998-2000	1	Black/Red	2	Black/Orange	3	Blue	4	Green/Orange	5	White/Green	Yellow*	Ⓘ
Sequoia	2001-2002	1	Black/Red	4	Red/Yellow	5	Light Green	6	Yellow/Green	2	Orange	Yellow/Green*	D
Sienna	1999-2003	1	Black/Red	2	Brown/White	3	Brown/Red	4	Brown/Yellow	5	White/Black	Blue/Black*	A
Solara	1999-2003	1	Red	2	Green/White	3	Red/Blue	4	Blue/Yellow	5	White/Black	Blue/Black*	A

*If vehicle model is not listed above, see reverse. Ⓘ = Connector picture not determined. Refer to wire colors for proper connections.

VEHICLE IMMOBILIZER CONNECTOR (Front View)

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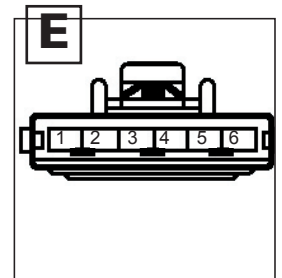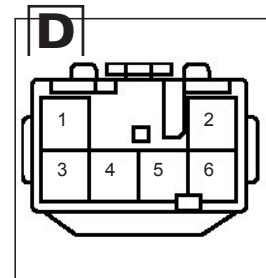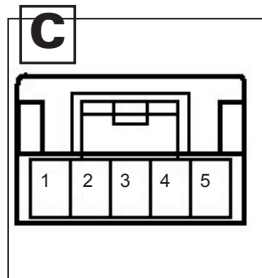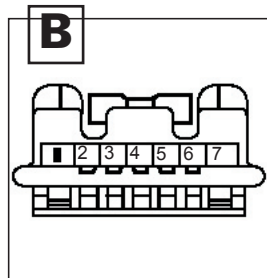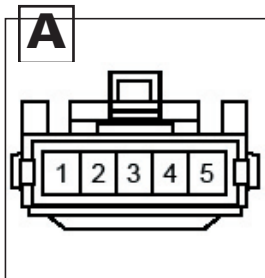
NOTICE: The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for properly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

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E L E C T R O N I C S

WARNING! READ MANUAL PRIOR TO INSTALLATION

1100X INSTALLATION GUIDE
MODE 2

PRODUCT DESCRIPTION

The 1100X interface module is used when installing remote start products in Toyota/Lexus vehicles equipped with a factory immobilizer. The 1100X 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 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.

PROGRAMMING INSTRUCTIONS

STEP 1: SELECT INSTALLATION MODE
This procedure determines the module will operate in a conventional manner using the ground when running signal.
CAUTION: For security purposes this step is programmable only once. Please ensure the proper mode is activated.
To change the installation mode, the module must be reset and repro-grammed (see Factory Reset procedure).
1. Complete wire connections to vehicle and insert harnesses into module.
2. Press programming button to select the installation type. The LED will flash green the same number of times to confirm selection.
   1 x green flash = unused mode.

2 x green flashes = Standard installation mode (for Directed systems).
3. To register your selection, press and hold the programming button until the LED displays a solid green light.
4. The installation mode is now selected.

STEP 2: PROGRAMMING PROCEDURE MODE 2
1. Insert the key into the ignition and start the vehicle.
2. The module LED will illuminate green to confirm learning procedure has been completed.
3. If LED illuminates red, remove key and see diagnostic section.

LED DIAGNOSTICS
1. If the LED displays a red light while the ignition is on, the module failed to learn correctly.
   Check your connection, reset the unit and repeat the programing from step 1.
2. When the remote starter is engaged, the LED will flash green to indicate the module has been correctly programmed.
   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 either the 4-PIN standard or 4-PIN optional iDatalink 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 NSTALLATION MODE.

MODE 2 WIRING DIAGRAM

Please refer to the Vehicle Wiring Cross Reference Chart to identify vehicle-specific pin locations & wire colors.
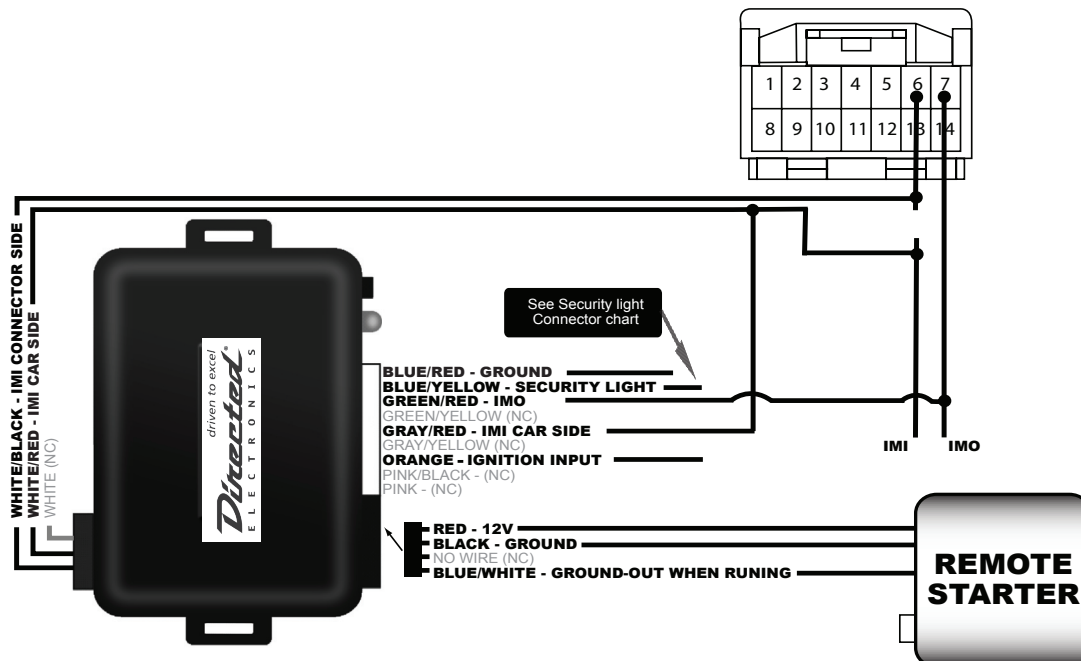
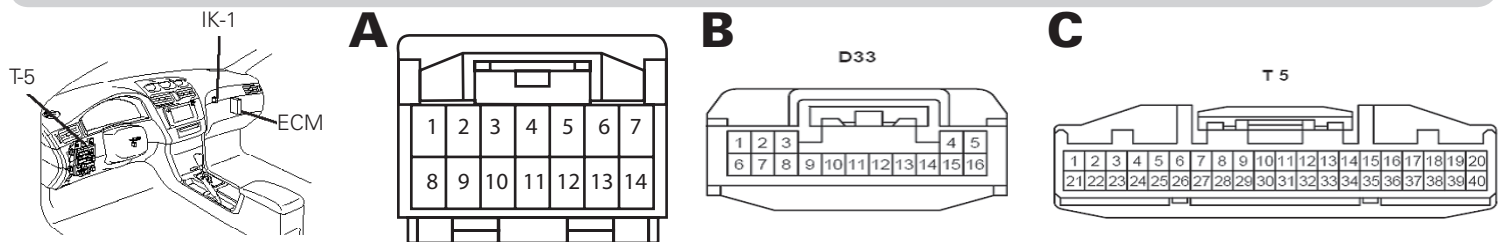## MODE 2 VEHICLE WIRING CROSS REFERENCE CHART*

IMMOBILIZER CONNECTOR

Model	Year	IMO Wire	Pin #	IMI wire	Pin #	Sec. light wire	Pin #	Con #	Theft ECU location
4 Runner	2003-2006	Blu/red	7	wht/red	6	vio/wht	3	A	Above and behind glove box
Avalon	2005-2006	blue	12	brown	13	pink	8	B	drivers side left of steering column
Corolla	2005-2006	black	7	white	6	red/wt	3	A	high left of steering column
ES 330	2004-2006	blu/yel	12	red/blu	13	vio	8	B	Above and behind glove box
GX470	2003-2006	blu/red	7	wht/red	6	vio/wht	3	A	Above and behind glove box
Highlander Hybrid	2006	violet	7	orange	6	white	3	A	behind glove box
Highlander	2004-2006	violet	7	black	6	white	3	A	behind glove box
Land Cruiser	2003-2006	yellow	7	white	6	grn/red	3	A	Above and behind glove box
LS430	2002-2006	gry/red	7	blk/yel	6	red	Note1	A	left of steering column/Transponder key computer
LX470	2003-2006	yellow	7	white	6	grn/red	3	A	Above and behind glove box
Matrix	2005-2006	black	7	white	6	red/wt	3	A	high left of steering column
RAV4	2004-2005	red	7	red/grn	6	grn/red	3	A	high left of steering column
RAV4	2006	lt grn	12	pink	13	yellow	8	B	right of steering column/behind radio area
SC430	2002-2005	wht/blu	7	wt/blu	6	blk	Note 2	A	Behind instrument cluster right side/Transponder key computer
SC430	2006	lt grn	7	lt blu	6	blk	Note 2	A	Behind instrument cluster right side/Transponder key computer
Sequoia	2003-2006	lt blu/yel	10	pink/grn	11	grn/blk	7	B	right of steering column/behind radio area
Sienna	2004-2006	brn/wt	7	brn/red	6	blk	3	A	Above and behind glove box
Solara coupe	2004-2006	brn/wt	7	vio/grn	6	red/wt	3	A	behind glove box
Solara convertible	2004-2006	brn/wt	7	brn/red	6	violet	3	A	behind glove box
Tacoma	2005-2006	lt grn/blk	12	lt blu/wt	13	vio/wt	8	B	at firewall behind instrument cluster
Tundra	2006	pink	10	wht/grn	11	blk/org	7	B	right of steering column/behind radio area
Yaris	2006	orange	12	white	11	lt green	8	B	right of steering column/behind radio area

Note 1   Security light wire available at theft ECU above and behind glove box. Pin 3 connector C
Note 2   Security light wire available at theft ECU high in drivers kick. Pin 3 connector C

*If vehicle model is not listed above, see reverse. ⓘ = Connector picture not determined. Refer to wire colors for proper connections.

SECURITY LIGHT CONNECTORS

IK-1
T-5
ECM

A

1	2	3	4	5	6	7
8	9	10	11	12	13	14

B D33

1 2 3   4 5
6 7 8 9 10 11 12 13 14 15 16

C T 5

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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