

INSTALLATION AND TECHNICAL REFERENCE MANUAL

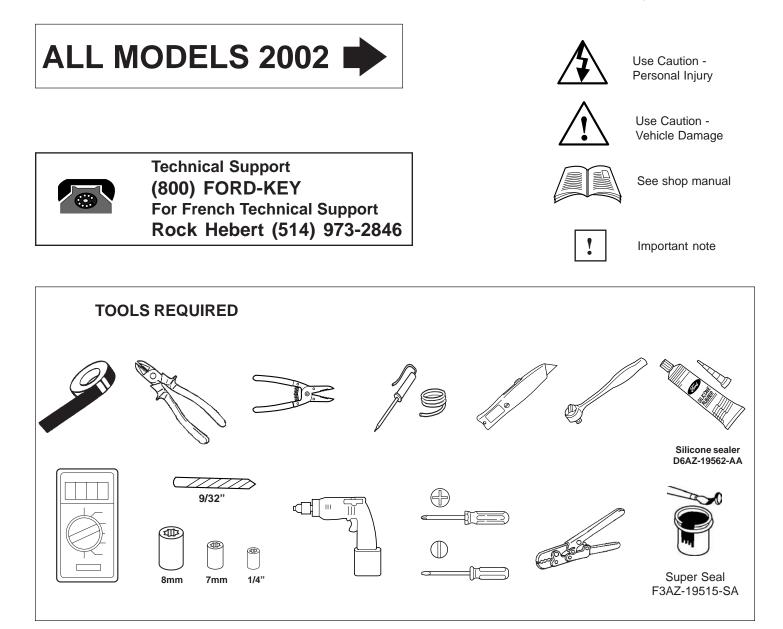
WARNING! REMOTE START SYSTEMS ARE ONLY APPLICABLE TO VEHICLES WITH AUTOMATIC TRANSMISSION!

BOTH ORIGINAL KEYS ARE REQUIRED FOR ALL REMOTE START SYSTEMS ON VEHICLES EQUIPPED WITH SECURILOCK!



EXPERT FITMENT REQUIRED

Subject to Change Without Notice



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				Rev Date- 8/29/05

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READ ME FIRST

For convenience this document uses short names when referring to a particular system or kit. The list below identifies the short names used herein:

Remote Start System with Deluxe Vehicle Security and Keyless Entry -> RKE/VSS/RMST

Remote Start System with Keyless Entry -> RKE/RMST

Remote Start System --> RMST

Deluxe Vehicle Security System with Keyless Entry -> Deluxe RKE/VSS

Vehicle Security System with Keyless Entry -> RKE/VSS

Vehicle Security System for Vehicles Equipped with Factory Keyless Entry --> VSS

Keyless Entry System -> RKE

Navigating this document can be accomplished by: 1) using the $\blacktriangleleft \triangleright$ buttons in the Acrobat toolbar, 2) clicking on the bookmark links in the bookmark pane to the left. (Clicking on the (+) symbols next to a bookmark will expand that bookmark, revealing additional selections) or 3) clicking on a topic in the table of contents located on page 2.

The most current version of this document can be accessed at www.mcdistributor.com and/or www.fmcdealer.com. As new/ updated material becomes available, this document will be updated and posted on those sites.

This installation instruction covers the installation of all PowerCode based Convenience/Security and Remote start kits, therefore follow only the steps that apply to the kit that you are installing. For example, the Securilock interface kits are only used on systems that include remote start (RMST). Therefore, if you are installing a security only kit, skip the steps pertaining to the Securilock interface kit.

Vehicle wiring is subject to change. All possible efforts have been taken to ensure that the information contained herein is accurate as of the revision dates indicated. As such, it is critical that vehicle circuits are tested prior to making any connections, to ensure that the proper vehicle circuit has been located.

Prior to beginning this installation it is recommended that you lower the drivers door window to prevent locking the keys in the vehicle.

The installation instructions are presented in three sections. The first section (which begins immediately following this page) contains installation instructions for the systems various components and tips for prepping the systems wiring harnesses. These steps are presented in a generic format. The procedures for these installation steps are basically the same regardless of the model vehicle or system that you are working on. The drawings depicted in this section are for reference only and may not reflect the vehicle on which you may be working.

The second (reference) section contains the system option programming charts and various other reference type information.

The last section presents vehicle specific wiring diagrams for each application. Within the wiring section for each vehicle, there are separate wiring diagrams for each different system. The vehicle specific wiring drawings are arranged in the following order:

- 1. RKE/VSS/RMST & RKE/RMST (in the same drawing) Typically 4 pages;
- 2. RMST 1 page
- 3. Deluxe RKE/VSS 3 4 pages;
- 4. RKE/VSS & RKE installation options 1 page;
- 5. VSS Typically 1 page;
- 6. Pre-load system wiring 1 page;
- 7. Fuse placement and vehicle specific programming requirements 1 page.

Vehicles that are equipped with 100% factory keyless entry will not have the RKE/VSS & RKE drawing. Some drawings will have blank pages inserted to maintain the page order.

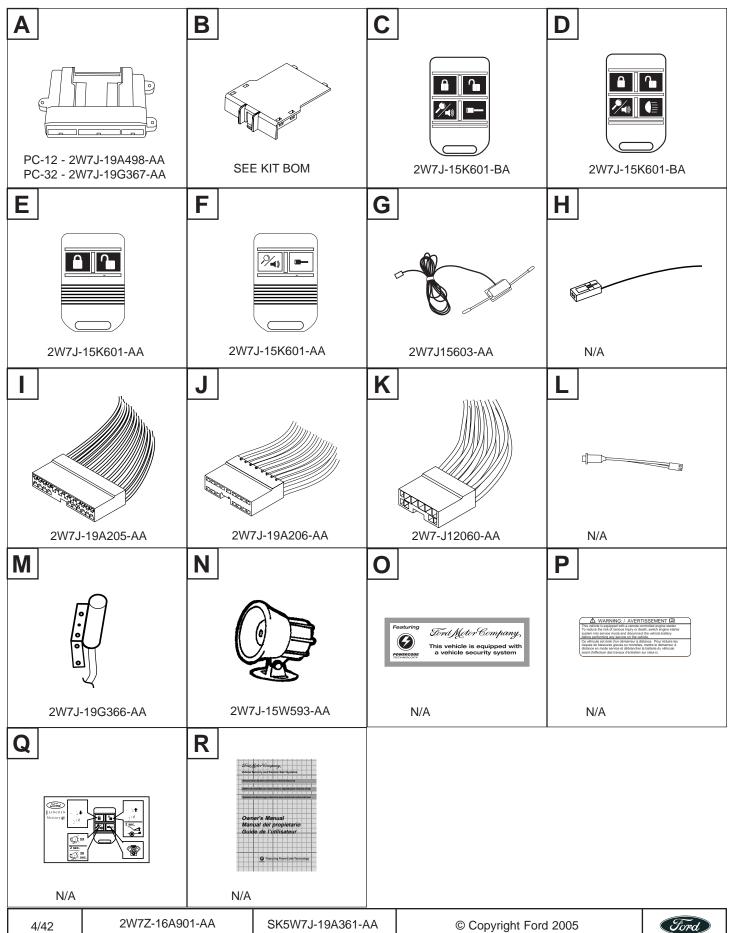
Prior to beginning your first installation of this product it is recommended that you:

- 1. Thoroughly review and print out the first section;
- 2. Skim through the reference section to become acquainted with the additional information that is available.

Then, when going through the installation print out the vehicle specific wiring section and use as a reference during the installation.

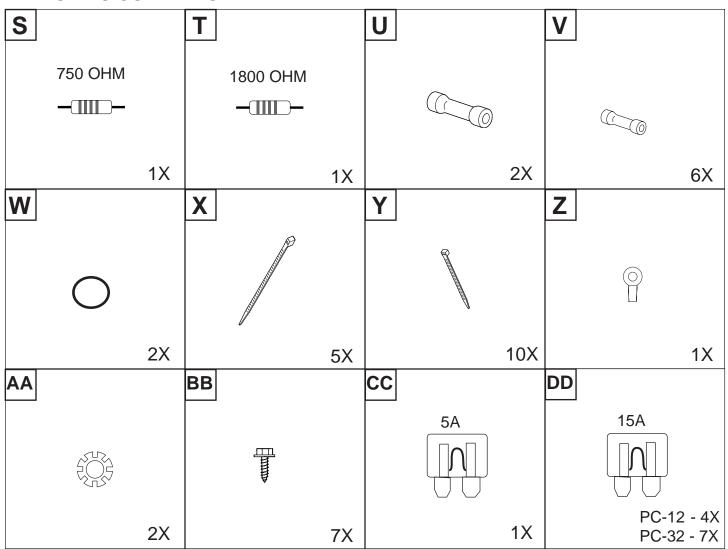
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KIT CONTENTS



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PARTS BAG CONTENTS



NOTE: Part bag contents are not available as service items

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KIT BILL OF MATERIALS LISTS

2W7Z-19G364-AA

Remote Start System w/Deluxe Vehicle Security and Keyless Entry Kit (RKE/VSS/RMST)

REF	DESCRIPTION	QTY
А	PC-32 MODULE ASSEMBLY	1
В	RKE/VSS/RMST DNA ASSEMBLY (2W7J-19G367-BA)	1
С	4 BUTTON POWERCODE TRANSMITTER W/REMOTE START ICONS	2
	24-WAY WIRING HARNESS (BASE)	1
J	16-WAY WIRING HARNESS (ADVANCE FUNCTIONS)	1
K	10-WAY WIRING HARNESS (CAR START FUNCTIONS)	1
L	STATUS INDICATOR ASSEMBLY	1
G	DIPOLE ANTENNA	1
М	HOOD SAFETY SWITCH ASSEMBLY	1
N	125 DB SIREN ASSEMBLY	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1
0	VSS WINDOW WARNING DECAL	2
Р	UNDERHOOD WARNING LABEL	1

2W7Z-19G364-BA

Remote Start System w/Keyless Entry Kit (RKE/RMST)

REF	DESCRIPTION	QTY
А	PC-32 MODULE ASSEMBLY	1
В	RKE/RMST DNA ASSEMBLY (2W7J-19G367-DA)	1
С	4 BUTTON POWERCODE TRANSMITTER W/REMOTE START ICONS	2
I	24-WAY WIRING HARNESS (BASE)	1
J	16-WAY WIRING HARNESS (ADVANCE FUNCTIONS)	1
K	10-WAY WIRING HARNESS (CAR START FUNCTIONS)	1
L	STATUS INDICATOR ASSEMBLY	1
G	DIPOLE ANTENNA	1
Μ	HOOD SAFETY SWITCH ASSEMBLY	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1
Р	UNDERHOOD WARNING LABEL	1

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2W7Z-19G364-CA Remote Start System Kit (RMST)

REF	DESCRIPTION	QTY
А	PC-32 MODULE ASSEMBLY	1
В	RMST DNA ASSEMBLY (2W7J-19G367-CA)	1
F	2 BUTTON POWERCODE TRANSMITTER W/REMOTE START ICON	2
1	24-WAY WIRING HARNESS (BASE)	1
К	10-WAY WIRING HARNESS (CAR START FUNCTIONS)	1
L	STATUS INDICATOR ASSEMBLY	1
G	DIPOLE ANTENNA	1
Μ	HOOD SAFETY SWITCH ASSEMBLY	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1
Р	UNDERHOOD WARNING LABEL	1

2W7Z-19A361-DA

Deluxe Vehicle Security and Keyless Entry Kit (Deluxe RKE/VSS)

REF	DESCRIPTION	QTY
А	PC-12 MODULE ASSEMBLY	1
В	Deluxe RKE/VSS DNA ASSEMBLY (2W7J-19A498-DA)	1
D	4 BUTTON POWERCODE TRANSMITTER W/HEADLIGHT ICONS	2
1	24-WAY WIRING HARNESS (BASE)	1
J	16-WAY WIRING HARNESS (ADVANCE FUNCTIONS)	1
L	STATUS INDICATOR ASSEMBLY	1
G	DIPOLE ANTENNA	1
Ν	125 DB SIREN ASSEMBLY	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1
0	VSS WINDOW WARNING DECAL	2

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2W7Z-19A361-CA Vehicle Security and Keyless Entry Kit (RKE/VSS)

REF	DESCRIPTION	QTY
А	PC-12 MODULE ASSEMBLY	1
В	RKE/VSS DNA ASSEMBLY (2W7J-19A498-CA)	1
С	2 BUTTON POWERCODE TRANSMITTER W/LOCK, UNLOCK ICONS	2
1	24-WAY WIRING HARNESS (BASE)	1
L	STATUS INDICATOR ASSEMBLY	1
Н	WHIP ANTENNA	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1
0	VSS WINDOW WARNING DECAL	2

2W7Z-19A361-BA

Vehicle Security Kit (VSS)

REF	DESCRIPTION	QTY
А	PC-12 MODULE ASSEMBLY	1
В	VSS DNA ASSEMBLY (2W7J-19A498-CA)	1
1	24-WAY WIRING HARNESS (BASE)	1
L	STATUS INDICATOR ASSEMBLY	1
Н	WHIP ANTENNA	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1
0	VSS WINDOW WARNING DECAL	2

2W7Z-19A361-AA Keyless Entry Kit (RKE)

REF	DESCRIPTION	QTY
А	PC-12 MODULE ASSEMBLY	1
В	RKE DNA ASSEMBLY (2W7J-19A498-BA)	1
1	24-WAY WIRING HARNESS (BASE)	1
L	STATUS INDICATOR ASSEMBLY	1
Н	WHIP ANTENNA	1
S - BB	INSTALLATION PARTS BAG	1
CC, DD	FUSE PARTS BAG	1
R	OPERATORS INSTRUCTION	1
S	OPERATORS QUICK REFERENCE WALLET CARD	1

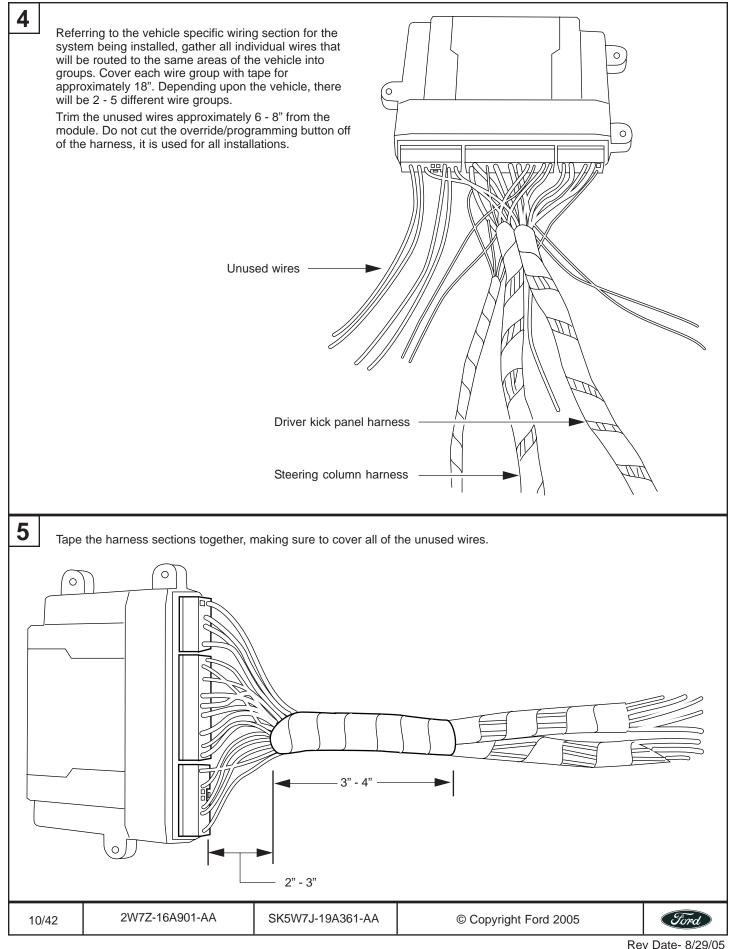
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MODULE PREPARATION

1	block placed workin vehicl In this posit shown Note: used	the supplied fuses into the pow on the control module. Refer to ment drawing for the specific ve ng on. Fuse placement drawings le specific wiring sections. s diagram, the parking light fuse ive polarity position and the Dor n in the negative polarity position The HVAC1, HVAC2 and IGNIT on systems including remote ca 2 module).	the fuse hicle that you are s are located in is shown in the me light fuse is on. ION fuses are only	DOME LIGHT PK LIGHTS DRIVER DOOR UNLOCK/ TRUNK RELEASE +
2		the software cartridge (DNA) o le as shown.	nto the control	
3	Harne Harne Harne featur along withou If you anten	the wiring harness(es) into the r <u>ess A:</u> 24-way, used on all syste <u>ess B:</u> 10-way, used on all syste <u>ess C:</u> 16-way, used on systems res (i.e. Headlight control, memory with some preload system insta- ut factory equipped RKE. are installing a system that use na (RKE, RKE/VSS or Preload) na into the module at this time.	ms; ms with car start; with convenience ory seat control) allations in vehicles s the whip	
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MODULE PREPARATION (Cont't)

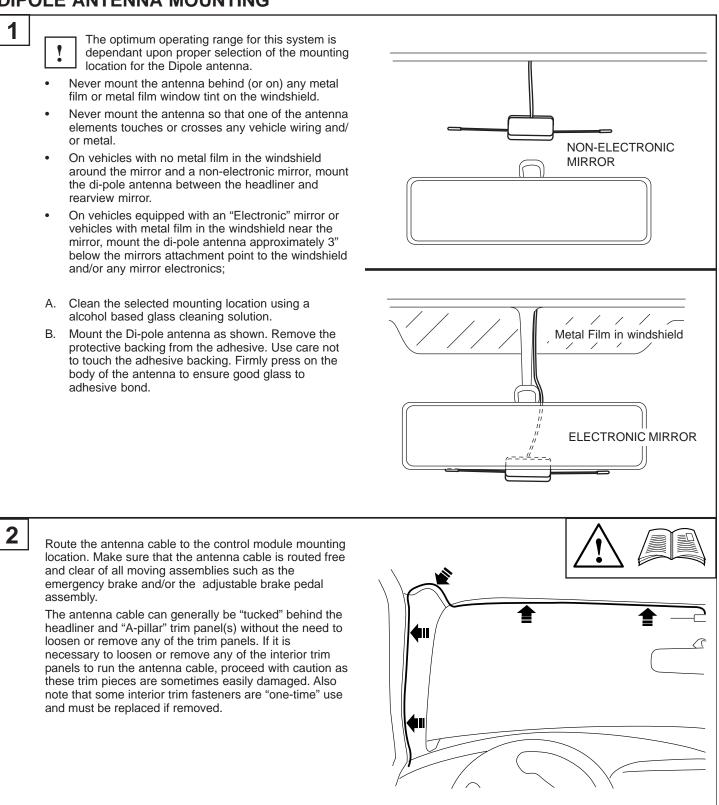


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VEHICLE PREPARATION

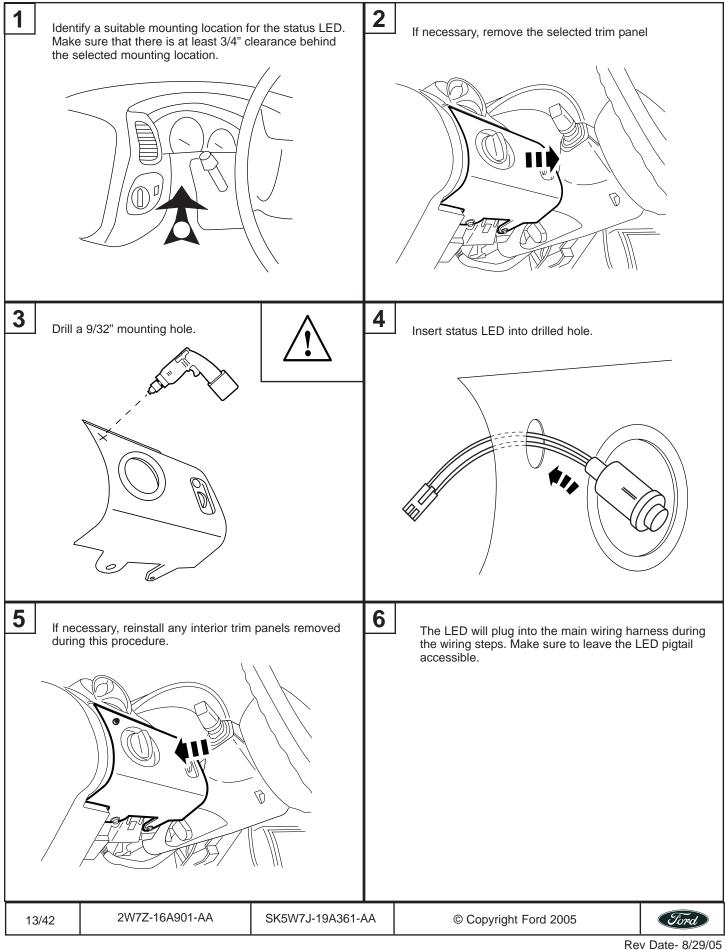
1	В.	To allow access to the necessary remove the interior panels as rec Identify the control module moun appropriate vehicle circuit conner wire harness routings that will be all moving underdash componen pedal, adjustable position brake and parking brake mechanism.	uired. ting location and ction points. Plan free and clear of ts (i.e. accelerator		
2	Supe shro	nodels except LS, T-Bird, Escort, er-Duty Pick-ups, remove the stee ud to allow access to the PATS tr around the ignition switch lock cy	ering column ansceiver antenna		
3	1. 2. 3. € € <u>Test</u> 1. 2. 3. € €	RKE remote). If the vehicle's horn begins sound Unlock the doors with the factory alarm disarm wire to the vehicle's for door trim switch disable below If the horn does not begin sound perimeter alarm. Follow the test p for Door Trim Switch Disable opt Roll down the driver door window Lock the doors using the factory Wait one minute, then reach in th If the doors unlock, the door trim	be and then close all doors RKE transmitter; ne driver door window and ding when the door is open RKE remote to turn off the s perimeter alarm disarm i v. ing when the door is opene procedure below for door tr ion (vehicles equipped with v and close all doors, hood RKE transmitter; ne driver door window and disable feature is not enable to the system's factory ala	 a, hood, trunk or hatch; b) open the drivers door (do not unlock doors with the vehicle is equipped with factory perime a alarm. In this case, wire the systems factory nput (See the vehicle specific wiring section). b) ed, the vehicle is not equipped with factory inside the vehicle is not e	eter alarm. perimeter Skip the test
11/-	42	2W7Z-16A901-AA	SK5W7J-19A361-AA	© Copyright Ford 2005	Ford

DIPOLE ANTENNA MOUNTING



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STATUS LED



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SECURILOCK INTERFACE KITS - 1L2Z-19G365-AB & 1S4Z-19G365-AB

1 SECURILOCK KIT Route the loop end of Securilock interface antenna (B) COMPONENTS up along steering column to the area around the PATS transceiver antenna coil. Then using the supplied small tie wraps, secure the antenna harness to existing vehicle wiring harnesses along the steering column allowing enough slack for the antenna loop to go around the PATS transceiver antenna. D NOTE: On LS and T-Bird, the ignition switch is mounted on the dash to the right of the steering column. On those vehicles, route the securilock interface antenna loop to the ignition switch. Ε *□ С 2 Following the directions on the supplied ampule of adhesive primer (\fbox), apply a thin coating primer to entire transceiver antenna coil. Allow the primer to dry for 5 minutes before proceeding with the next step. D 3 Remove backing from one side of supplied two-way tape (E) and apply tape around transceiver antenna coil. Ε 2W7Z-16A901-AA SK5W7J-19A361-AA 14/42 © Copyright Ford 2005 Ford

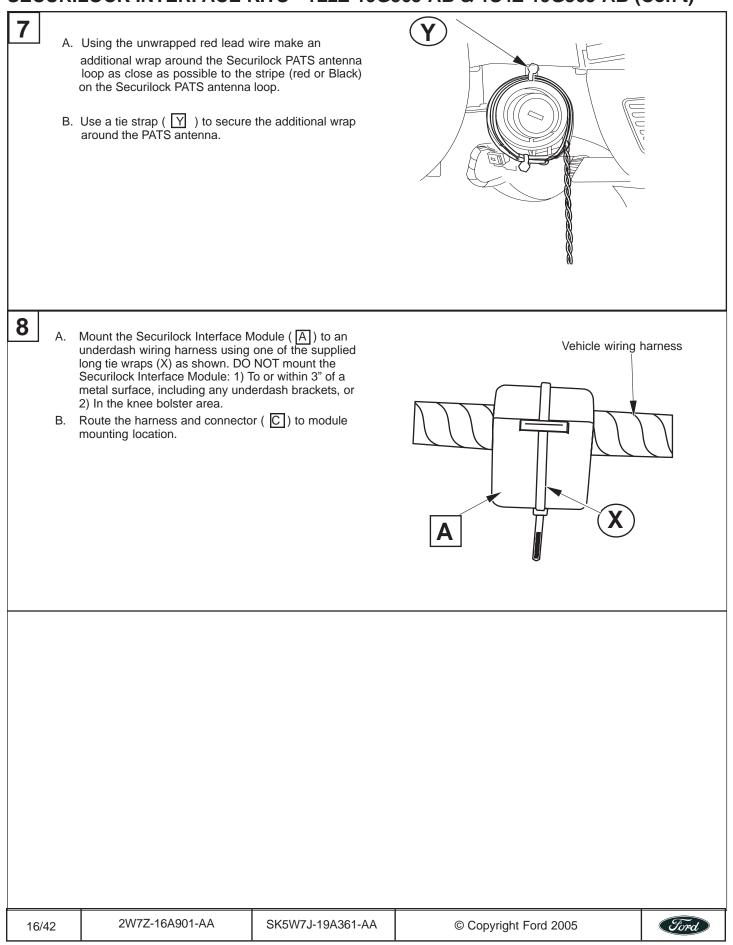
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SECURILOCK INTERFACE KITS - 1L2Z-19G365-AB & 1S4Z-19G365-AB (Con't)

4	Caref away	fully unwrap four (4) inches of th from the Securilock PATS anter	ne twisted red wire nna loop (B	
5	Make direct locate housi	ove backing on tape ([E]) and ([B]) on tape around antenna c e sure to align stripe (Black or Re tly over the PATS antenna coil. T ed near the outer edge (key side ing. Press on antenna loop wire between tape and wire.	ed) on antenna loop The antenna is e) of the transceiver	B Stripe	
6	8	Jse a tie wrap (Y) to complete antenna loop as shown. Make s Securilock PATS antenna loop (he PATS antenna as possible.	ure that the		
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SECURILOCK INTERFACE KITS - 1L2Z-19G365-AB & 1S4Z-19G365-AB (Con't)

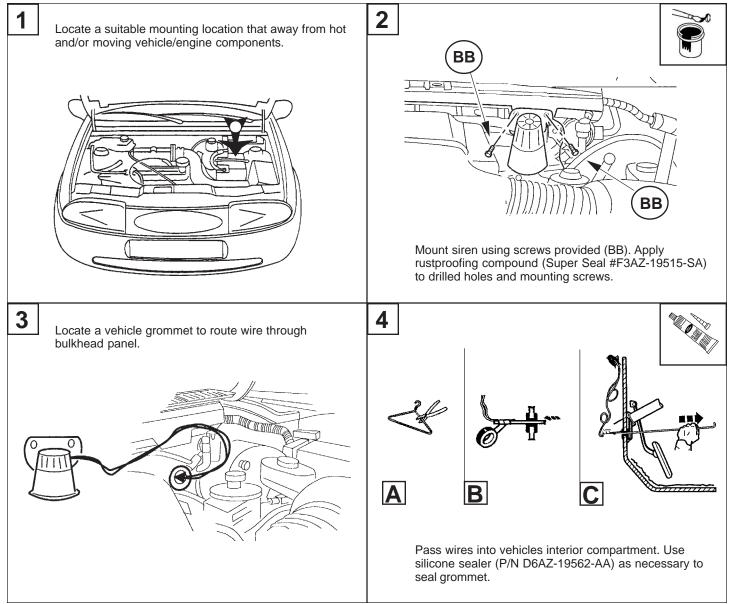


SECURILOCK INTERFACE KIT - 1L3Z-19G365-AB

1	up al	e the loop end of PATS interface ong steering column to area aro na coil.		SECURILOCK KIT COMPONENTS C B	A
2	Slip a	antenna loop (B) over PATS tra	ansceiver.		
3	u la r 2 B. F	Mount the Securilock Interface M underdash wiring harness using ong tie wraps (X) as shown. DO Securilock Interface Module: 1) T metal surface, including any unde 2) In the knee bolster area. Route the harness and connecto mounting location.	one of the supplied NOT mount the o or within 3" of a erdash brackets, or	Vehicle wiring	g harness
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SIREN INSTALLATION



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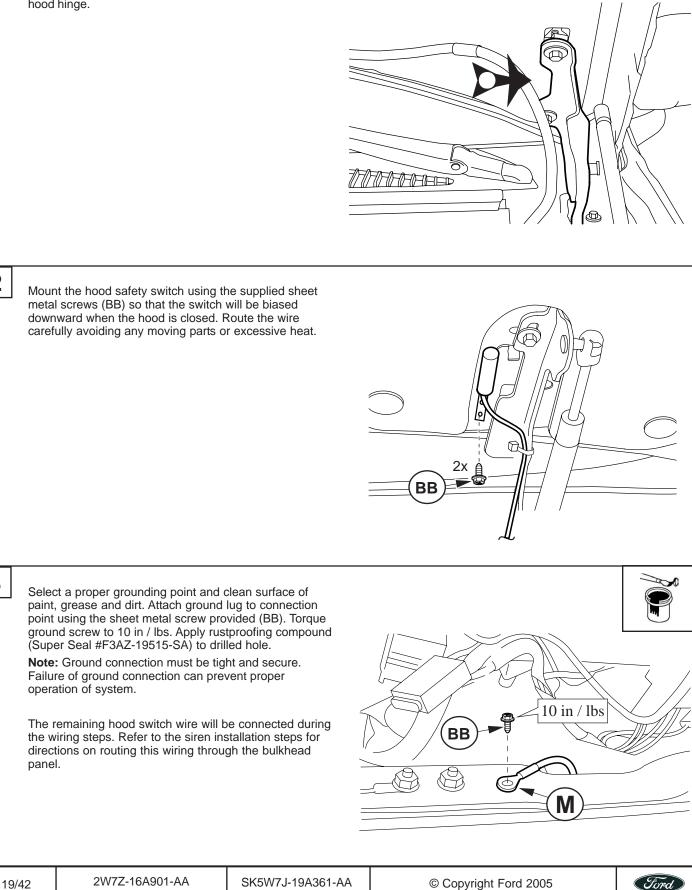
HOOD TILT SWITCH INSTALLATION

1

2

3

Locate an easy to access area near the drivers side hood hinge.



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MOUNTING THE CONTROL MODULE

1 Plug the connectors for the Securilock interface and antenna (if not already done) into the control module as shown. Trim and tape off To Securilock WHIT module 0 2 Plug the Status LED into the main wiring harness. 0 0 To Status LED TF П Main wire harness **RF** Antenna 3 Using the supplied long tie wraps (X), mount the Α. control module to underdash wiring harnesses and/ or dash mounting brackets. Module mounting locations are provided on the last page of the vehicle specific wiring sections. DO NOT mount the control module in the knee bolster area. To ensure best performance of the built-in shock sensor, securely tie wrap the control module at three points to the vehicle. B. Route the different sections of the wiring harness to the appropriate underdash areas of the vehicle. Neatness in this area is very important in ensuring a quality finished installation. Wherever possible, route the PowerCode system wires along with existing vehicle wiring harnesses and tie wrap the PowerCode wiring harnesses to existing vehicle wiring harnesses. Make sure to route the PowerCode system wiring so that it is free and clear of all moving underdash components (i.e. accelerator pedal, adjustable brake pedal assembly and/or parking brake mechanism). 2W7Z-16A901-AA SK5W7J-19A361-AA 20/42 © Copyright Ford 2005 Ford

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SYSTEM WIRING CONNECTIONS

- A. Finish routing the systems wiring harnesses to their destination points and secure all system wiring using the supplied tie wraps (Y).
 - B. Make the wiring connections as shown. Vehicle specific wiring diagrams begin on page 42.

 \triangle

1

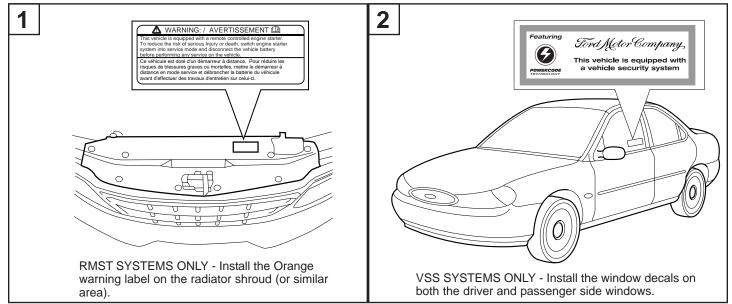
change. Instructions on proper wiring connection methods and circuit testing can be found in the reference section of this manual.

Make sure to test each vehicle circuit prior to making any connections - All vehicle wiring is subject to

C. After completing all the system wiring, follow the instructions beginning on the next page to program and test the systems functionality.

NOTE: The system will not function properly if not programmed.

WARNING LABEL INSTALLATION



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System Programming Instructions

Transmitter programming:

A. Open the driver's door (press and hold in brake pedal on Remote Start only system);

1

NOTE: On vehicles with negative polarity door ajar switch input circuits (Refer to the vehicle specific programming section), the door is closed during this step unless the door ajar switch input polarity option has been previously changed to negative.

- B. Turn the ignition key to the ON or RUN position;
- C. Press and hold the programming/override button; After 10 seconds the horn will chirp 3 times, indicating the system is now in the transmitter learn mode.
- D. Release the programming/override button;
- E. Press transmitter button 1() on all, except RMST system which is 3) on the on the remote control transmitter to be programmed.

The horn will chirp one time to indicate that the transmitter has been learned.

Notes:

- A. Up to a total of 8 transmitters can be programmed at this time
- B. Transmitters shipped with complete kits or personality kits are pre-programmed to the DNA and do not need to be programmed at this time.
- C. If the vehicle is equipped with memory seats/functions, the last two transmitters programmed will activate the memory seats/functions.
- D. All programmed transmitters can be erased from memory by pressing the door trim switch "unlock button" while in transmitter learn mode (requires that the Disarm input and Unlock sense input wires be connected)

Each system has several user programmable options which can be changed to accommodate different vehicle options and/ or consumers desires. Virtually every installation will require that some option(s) to be changed. Charts listing the options for each system and the factory default settings are located on the following pages.

Option programming:

- A. Follow the instructions above to enter transmitter learn mode;
- B. Press and release the programming/override button.

The horn will chirp four times indicating the system has entered the first option bank.

Note:

2

Depending upon the system that you are working with, there will be anywhere from 2-5 option programming banks. Each option bank contains anywhere from 2-8 options.

To change the setting of an option (Remote control systems):

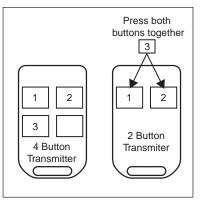
A. Press button 3 (see chart to the right) to advance to the desired option (refer to the programming charts on the following pages for the specific system that you are programming;
The born will a born a number of times to indicate which patien is calculated (i.e. The born will a born will a born and times to indicate which patients is calculated (i.e. The born will a born a number of times to indicate which patients).

The horn will chirp a number of times to indicate which option is selected (i.e. Two chirps indicates that option number two has been selected).

B. Press the button 1 to change the setting of the option The status LED indicates the setting of the option: LED ON indicates that the option is on, LED OFF indicates that the option is off.

Note:

Pressing transmitter button 2 while in any option bank will reset all options, except for the "Installer" options and the shock sensor to their factory settings. The system will respond by chirping the horn 4 times.



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2 CONTINUED

To change the setting of an option (VSS system):

- A. Press the door trim "Lock" switch to advance to the desired option (refer to the programming charts on the following pages for the specific system that you are programming; The horn will chirp a number of times to indicate which option is selected (i.e. Two chirps indicates that option number two has been selected).
- B. Press the door trim "Unlock" switch to change the setting of the option The status LED indicates the setting of the option: LED ON indicates that the option is on, LED OFF indicates that the option is off.

Note:

Pressing the door trim switch "lock button" while in transmitter learn mode will reset all options to their factory default settings, except for the installer options and shock sensor settings. The system will respond by chirping the horn 4 times.

To advance to the next option bank:

A. At any point while in option programming, press and release the programming/override button to advance to the next option bank.

The horn will chirp a number of times, indicating which option bank the system has entered (i.e. 5 chirps indicates that the system is in option programming bank #2. Refer to the option programming chart to correlate the horn chirps to option bank).

3

Shock sensor setting (not applicable to RKE or RKE/RMST systems)

The "Lite-touch" and "Full shock" sensor settings are always the first and second options, respectively, in the first option bank. To change a shock sensor setting, follow these steps:



Remote control systems:

- A. Enter option learn mode, option bank 1, as shown in step 2 of this section.
- B. Go to option #1 for Lite-touch or option #2 for Full shock.
- C. After the desired option is selected, pressing transmitter button 1 will increase sensitivity and pressing transmitter button 2 will decrease sensitivity.

The system will chirp the horn each time a impact is detected that is greater than the current setting while the system is in shock sensor setting mode.

VSS System

- A. Make sure that the drivers window is rolled down.
- B. Enter option learn mode, option bank 1, as shown in step 2 of this section.
- C. Go to option #1 for Lite-touch or option #2 for Full shock.
- D. Select the desired option and close all doors.
- E. Press the door trim "Unlock" switch to increase sensitivity and pressing the door trim "Lock" switch to decrease sensitivity. The system will chirp the horn each time a impact is detected that is greater than the current setting while the system is in shock sensor setting mode.
- F. Once the desired sensitivity is achieved, open a door to advance to the next option.

All Security Sytems:

- A. The Full trigger shock sensor setting must be set within 10 increments of the least sensative setting and the "lite-touch" setting must be set to within 30 increments of the least sensative setting.
- B. Deviation from this setting recomendation introduces the potential of false alarm triggers, due to electrical or mechanical interference.

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System Programming Instructions - Remote Start Systems

1			
Δ	Тас	h (Idle speed) programming - Remote Start Systems Only	
-	Α.	Make sure that the hood is closed before proceeding.	/ / /
	В.	Enter option learn mode as described in step 2 of this section.	
	C.	€RKE/VSS/RMST & RKE/RMST systems - Advance to option bank # 5 (8 chirps)	
		€ RMST system - Advance to option bank #2 (5 chirps).	
	D.	€ RKE/VSS/RMST & RKE/RMST system - Advance to option #6; € RMST system - Advance to option #2.	
	E.	Press and hold in the brake pedal and start the engine using the ignition key. Allow the engine to settle to a normal idle speed. The system will chirp the horn every three (3) seconds if a valid tach s detected.	ignal is
	F.	After the engine has settled to a normal idle speed, press and release the programming/override button (the horn will he times) and turn the ignition key off.	onk four (4)
	NO	TE: If the system is not chirping the horn every three (3) seconds after the engine has started, the system is not seeing signal. Check your tach connection (refer to the appropriate vehicle specific wiring diagram)	g a valid tach
5			
J	Sec	urilock (PATS) Interface Programming and Remote Start Operation Test	
	(two	o programmed PATS ignition keys are required for this step)	/ ♦ \
	NO	E: This step does not apply to Econoline, SuperDuty Pick-ups and Escort	
	Α.	Sitting in the driver seat, be prepared to press the brake pedal to shut down the remote starter system.	
	В.	Using the first key, turn the ignition on, wait for the THEFT light to turn off, then turn the ignition off and remove key from switch.	the ignition
	C.	Using the second key, turn the ignition on, wait for the THEFT light to turn off, then turn the ignition off and remove key fr switch.	om the ignitior
	D.	Activate the remote start function using the PowerCode remote control transmitter.	
		The system should flash the parking lights and chirp the horn one time, pause for four seconds then start then start th	e engine.
	E.	After the engine is started. Press the brake pedal to shutdown the engine. The Securilock interface is now programmed. If the theft light begins flashing rapidly and/or the engine does not crank o will not start, refer to the troubleshooting information below.	r cranks but
	F.	Open the hood.	
	G.	Sitting in driver's seat, be prepared to press the brake pedal, activate the start function.	
		The system should chirp the horn two (2) times and abort the start sequence.	
	H.	Close the hood.	
	I.	Place ignition key in the ignition cylinder.	
	J.	Again, Sitting in driver's seat, be prepared to press the brake pedal and activate a start sequence.	
		The system should chirp the horn one (1) time pause four seconds, then chirp the horn two (2) times and abort the sta	art sequence.
	•	In steps G and J above, the engine MUST NOT start! If the system starts the engine in either steps G or J, check your h installation and key-in-sense connection.	nood tilt switch
	•	Troubleshooting steps:	
	Α.	If the Securilock interface fails to program (theft light flashing), check the following:	
		When programming the Securilock Interface timing is important, make sure that you:	
		1. Turn the ignition on with the second key within 5 seconds of the theft light going out on the first key;	
		2. Engage the remote start within 5 seconds of the theft going out on the second key;	
		3. Remove the second ignition key before engaging the remote starter.	
	Key ena	TE: If a third (or more) PATS ignition key has been programmed to the vehicle using either the Ford NGS or WDS programmer " mode described in the installation manual may have been disabled. If this is the case, use the NGS or WDS programmer ble the "add key" mode or program the Securilock Interface kit following the NGS or WDS procedure in the vehicle service ing a new PATS key.	to either re-
	В.	If the theft light is solid and engine cranks but will not start:	
		Check all Ignition (Hot through run and crank circuits) and Heater (Run circuits). Make sure that the correct outputs from PowerCode module are connected to the correct vehicle circuits. Reversing the heater and ignition circuits from the Pow system will not permanently damage the vehicle but may cause the remote start function to not work and/or set a PCM of (which will cause the check engine light to stay on). If the check engine light stays on, use the NGS or WDS testers to fault code has been set. The fault code will help identify which circuit is not properly connected.	verCode error codes

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System Programming Instructions - Security/Convenience Function Test

1 Refer to the Operators manual as necessary and check out the following functions. If any of the functions below, fail to operate, first refer to the vehicle specific wiring diagrams and check the wiring and system programming. **Convenience Functions** All Door Lock / All Door Unlock Driver door unlock (if installed) Parking light flash Trunk or hatch release ☐ Illuminated entry □ Ignition triggered lock/unlock (if enabled) □ Illuminated exit Panic alarm Memory Seat activation (if equipped) Power Side Sliding door activation (if equipped - Windstar only) Power Tonneau cover activation (Blackwood only) Express window down (LS only) Headlight illumination (if installed) **Security Functions** Security System Arm / Disarm Using PowerCode remote control transmitters Using Factory RKE Keyfobs Verify interior door trim unlock switch DOES NOT disarm system All entry points trip alarm cycle Status indicator flashes when armed Siren (if installed) Shock sensor settings (lite-touch & full shock) Remote start convenience functions Heater & A/C operation during remote start Rear defroster (if installed) **Remote start safety functions** □ No remote start activation with the ignition key inserted into the ignition switch ☐ No remote start activation with the vehicle's hood open No remote start activation with the vehicle's brake pedal depressed

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SECURILOCK INTERFACE AND RELAY APPLICATION CHART

Note: Application information is also located in the vehicle specific wiring section

	0 "		Relay Req	unemento		
2002	Securilock Interface Kit	Headlight	Rear Defroster	Driver Door Unlock	Other]
Crown Victoria/Grand Marguis	1L3Z-19G365-AB	, is similarly a set	201100101	1	E, F	1
Econoline	Not Equipped	1		1	<u> </u>	
Escort	Not Equipped			1		
Escape	1S4Z-19G365-AB		1	1		
F-150 (Includes Supercrew)	1L3Z-19G365-AB	1		1	Е	
F-250/350 (Super-Duty)	Not Equipped	1		1	 A, E	Relay's are available by
Expedition/Navaigator	1L3Z-19G365-AB	1		1	B	ordering part numbers:
Excursion	1L3Z-19G365-AB	1		1	A	Single: YL3Z-19G390-AA
LS-6/8	1S4Z-19G365-AB			1		10 Pack:YL3Z-19G390-B/
Focus	1S4Z-19G365-AB			1	Α	
Mustang	1L3Z-19G365-AB	1	1	1		
Ranger	1L2Z-19G365-AB	1		1		
Explorer/Mountaineer	1L2Z-19G365-AB	1		1	В	
Explorer Sport/Sport Trac	1L2Z-19G365-AB	1	1	1		
Town Car	1L3Z-19G365-AB			1	B, F	
Taurus/Sable	1L2Z-19G365-AB	1		1	_ , .	
Windstar	1L2Z-19G365-AB			1		A - Trim switchdisable,
T-Bird	1S4Z-19G365-AB			1		requires 1 relay
2003						B - Memory seats,
Aviator	1L2Z-19G365-AB	1		1	D	requires 2 relays
Crown Victoria/Grand Marquis	1L2Z-19G365-AB			1	D E,F	C - Parking lights,
Econoline	Not Equipped	1		1	1	
Escort	Not Equipped			1		requires 1 relay
Escape	1S4Z-19G365-AB			1		D - Key latch
F-150 (Includes Supercrew)	1L3Z-19G365-AB	1		1	E	release - 1 relay
F-250/350 (Super-Duty)	Not Equipped	1		1	Ă, E	E- Door Lock/Unlock,
Expedition/Navaigator	1L2Z-19G365-AB	1		1	, _	requires 2 relays for
Excursion	1L3Z-19G365-AB	1		1	Α	vehicles w/o factory RKE
LS-6/8	1L2Z-19G365-AB	1		1	С	F- Remote Start Systems
Focus	1S4Z-19G365-AB			1	Ā	requires 2 relays
Mustang	1L3Z-19G365-AB	1	1	1		
Ranger	1L2Z-19G365-AB	1		1		
Explorer/Mountaineer	1L2Z-19G365-AB	1		1	В	
Explorer Sport/Sport Trac	1L2Z-19G365-AB	1	1	1		
Town Car	1L2Z-19G365-AB			1	B, F	
Taurus/Sable	1L2Z-19G365-AB	1		1	<i>_</i> ,.	
Windstar	1L2Z-19G365-AB			1		
T-Bird	1L2Z-19G365-AB			1		

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SECURILOCK INTERFACE AND RELAY APPLICATION CHART

Note: Application information is also located in the vehicle specific wiring section

Model Year / Model	• • • •		Relay Req	uirements		1
	Securilock		Rear	Driver Door	01	1
2004	Interface Kit	Headlight	Defroster	Unlock	Other	
Aviator	1L2Z-19G365-AB			1	D	
Crown Victoria/Grand Marquis	1L2Z-19G365-AB				E, F	
Econoline	Not Equipped	1		1	E, G	
Escape	1S4Z-19G365-AB			1		
F-150 (Classic Body)	1L3Z-19G365-AB	1		1	E	
F-150 (New Body)	1L2Z-19G365-AB	1		1		Relay's are available by
F-250/350 (Super Duty)	Not Equipped	1		1	A, E, G	ordering part numbers:
Expedition/Navaigator	1L2Z-19G365-AB	1		1		Single: YL3Z-19G390-AA
Excursion	1L3Z-19G365-AB	1		1	A, G	10 Pack:YL3Z-19G390-BA
LS-6/8	1L2Z-19G365-AB				Н	
Focus	1S4Z-19G365-AB	1				
Freestar/Monterey	1L2Z-19G365-AB		1	1	С	
Mustang	1L3Z-19G365-AB	1	1	1		
Ranger	1L2Z-19G365-AB	1		1		
Explorer/Mountaineer	1L2Z-19G365-AB	1		1		
Explorer Sport/Sport Trac	1L2Z-19G365-AB	1	1	1		A - Trim switchdisable,
Town Car	1L2Z-19G365-AB			1	B, F	requires 1 relay
Taurus/Sable	1L2Z-19G365-AB	1		1		B - Memory seats,
T-Bird	1L2Z-19G365-AB			1		requires 2 relays
2005						C - Parking lights,
Aviator	1L2Z-19G365-AB	1		1	D	requires 1 relay
Crown Victoria/Grand Marquis	1L2Z-19G365-AB			1	Е	D - Key latch
Econoline	Not Equipped	1		1	E, G	release - 1 relay
Escape	1L2Z-19G365-AB			1	· · · ·	E- Door Lock/Unlock,
F-250/350 (Super Duty)	Not Equipped	1		1	A, E, G	requires 2 relays for
F-150 (New Body)	1L2Z-19G365-AB	1		1		
Expedition/Navigator	1L2Z-19G365-AB	1		1		vehicles w/o factory RKE
Excursion	1L3Z-19G365-AB	1		1	A, G	F- Remote Start Systems
Five Hundred/Freestyle	1L2Z-19G365-AB			1	1 -	requires 2 relays
Focus	1S4Z-19G365-AB	1				G- Tach Inverter required
Freestar/Monterey	1L2Z-19G365-AB	1	1	1	С	for vehicles with 6.0Liter
LS-6/8	1L2Z-19G365-AB				Ĥ	diesel engines
Mustang (New)	1L2Z-19G365-AB			1	C	H- Parking lights,
Explorer/Mountaineer	1L2Z-19G365-AB	1		1		requires 2 relays
Explorer Sport/Sport Trac	1L2Z-19G365-AB	1	1			
Ranger	Not Equipped	1		1		
T-Bird	1L2Z-19G365-AB			1		
Town Car	1L2Z-19G365-AB			1	В	
Taurus/Sable	1L2Z-19G365-AB			1	D	
I aui us/Sable	1177-120202-4D			I		J

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SECURILOCK INTERFACE AND RELAY APPLICATION CHART

Note: Application information is also located in the vehicle specific wiring section

Model Year / Model			Relay Req	uirements]
2006	Securilock Interface Kit	Headlight	Rear Defroster	Driver Door Unlock	Other	Relay's are available by
Crown Victoria/Grand Marguis	1L2Z-19G365-AB			1	D	ordering part numbers:
Econoline	Not Equipped	1		1	D, E	Single: YL3Z-19G390-AA
Escape	1S4Z-19G365-AB			1		10 Pack:YL3Z-19G390-BA
F-250/F-350 (Super Duty)	Not Equipped	1			A, D, E	
F-150	1L2Z-19G365-AB	1		1		
Expedition	1L2Z-19G365-AB	1		1		
Explorer	1L2Z-19G365-AB			1		A - Trim switchdisable,
Five Hundred	1L2Z-19G365-AB			1		requires 1 relay
Focus	1L2Z-19G365-AB	1				B - Memory seats,
Freestar	1L2Z-19G365-AB			1	С	requires 2 relays
Freestyle	1L2Z-19G365-AB			1		C - Parking lights,
Fusion	1L2Z-19G365-AB			1	F	requires 1 relay
Grand Marquis	1L2Z-19G365-AB			1	D	
LS-6/8	1L2Z-19G365-AB				F	D- Door Lock/Unlock,
Milan	1L2Z-19G365-AB			1	F	requires 2 relays for
Marauder	1L2Z-19G365-AB			1	D	vehicles w/o factory RKE
Montego	1L2Z-19G365-AB			1		E- Tach Inverter required
Monterey	1L2Z-19G365-AB			1	С	for vehicles with 6.0Liter
Mustang	1L2Z-19G365-AB			1	С	diesel engines
Navigator	1L2Z-19G365-AB	1		1		F- Parking lights,
Ranger	1L2Z-19G365-AB			1		requires 2 relays
Taurus	1L2Z-19G365-AB	1		1		
Town Car	1L2Z-19G365-AB			1	В	
Zephyr	1L2Z-19G365-AB				F	

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RKE/VSS/RMST OPTION CHART

Option Bank 1 – 4 chirps	Factory setting
1 – Lite-touch adjustment	
2 – Full shock adjustment	
 Optional alarm disable Disables security functionality. 	Off
 4 – Passive starter Interrupt Starter interrupt activates 1 minutes after key off event. 	Off
5 – Passive arming Security system activates 1 minutes after key off event.	Off
6 – Passive door locks All doors lock automatically 1 minutes after key off event	Off
 7 – Selectable chirps Enables arming/disarming confirmation chirps (uses horn). 	On
 8 – Silent choice On – Confirmation chirp on second press of transmitter button Off – Confirmation chirp on first press of transmitter button. Requires option #7 (above) to be ON. 	
Option Bank 2 – 5 chirps	Factory setting
 Drivers door priority unlock Drivers door only unlocks on first press of Disarm/Unlock, All doors unlock on second press within 5 seconds. 	Off
 2 – Ignition lock All doors lock when ignition key is turned to on (run). 	Off
 3 – Ignition unlock All doors are unlocked when ignition key is turned to off. 	Off
 4 – Delayed door lock for ignition lock Waits 3 seconds after key on event before activating ignition lock. Used on vehicles with theater dimming interior lights. 	
5 – Illuminated exit Activates dome light output for one minute when ignition key is turned off	
6 – Horn used for alarm Horn sounds during alarm/panic cycles	
 7 – Noise control Limits alarm trips to 5 per zone 	
8 – Factory RKE system does not arm alarm	01
Prevents factory RKE from arming security system. Still allows factory RKE to disarm security system.	Off
Option Bank 3 – 6 chirps	Factory setting
 Tach diagnostic mode This feature should only be used for troubleshooting purposes only! Car start function ignores tach input and cranks starter one time for one second. 	
WARNING – Over rev and stall detection is disabled when this option is enabled 2 – Car start run time	Off
LED On – 15 minutes, LED Off – 10 minutes	Off
(Re)locks doors after remote start.	Off
4 – One button start Activates remote start by press and hold of start button.	Off
5 – Diesel timer Delays crank attempt 30 seconds after ignition on	Off
6 – Rear Defrost output activation LED On- Activation only after remote start, LED Off- Activation anytime	On

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RKE/VSS/RMST OPTION CHART (Cont't)

Option Bank 4 – 7 chirps	
 1 – Headlight Output Time (used only when option #5 below is in the LED Off position)* LED On – 20 seconds, LED Off – .5 seconds 	On (20 sec.)
2 – Rear Defrost Output Time LED On – 10 minutes, LED Off – .5 seconds	Off (.5 sec.)
3 – Auxilliary Output Time LED On – .5 seconds, LED Off – Time held	× ,
4 – Power Sliding Door Output Time (used only when option #5 below is in the LED On position)* LED On – .5 seconds, LED Off – Time held	х <i>х</i>
 5 – Convert headlight output to act as the power sliding door output	
LED On- Power Sliding Door Output, LED Off- Headlight Output	Off
Option Bank 5 – 8 chirps	
1 – Door ajar switch input polarity LED On – Positive, LED Off – Negative	On (Positive)
2 – Unlock switch sense input polarity LED On – Positive, LED Off – Negative	· · ·
3 – Key-in sense input polarity LED On – Positive, LED Off – Negative	
 4 – Door Ajar Input Entry Delay 5 Second entry delay. Used for vehicles with external door mounted RKE keypads 	
5 – Use trunk relay as Driver door unlock	
Switches Trunk release and Drivers door unlock outputs	Οπ
With hood open or brake pedal pressed start engine. System will chirp horn every five seconds if a valid tach signal is present.	

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RKE/RMST OPTION CHART

Option Bank 1 – 4 chirps	Factory setting
 1 – Passive starter Interrupt Starter interrupt activates 1 minutes after key off event. 	Off
 2 – Passive door locks All doors lock automatically 1 minutes after key off event. 	Off
3 – Selectable chirps Enables arming/disarming confirmation chirps (uses horn).	On
 4 – Silent choice On – Confirmation chirp on second press of transmitter button Off – Confirmation chirp on first press of transmitter button 	
Off – Confirmation chirp on first press of transmitter button. Requires option #7 (above) to be ON.	On
Option Bank 2 – 5 chirps	Factory setting
 Drivers door priority unlock Drivers door only unlocks on first press of Disarm/Unlock, 	
All doors unlock on second press within 5 seconds.	Off
 2 – Ignition lock All doors lock when ignition key is turned to on (run). 	Off
3 – Ignition unlock	
All doors are unlocked when ignition key is turned to off	Оп
Waits 3 seconds after key on event before activating ignition locked. Used on vehicles with theater dimming interior lights.	Off
5 – Illuminated exit Activates dome light output for one minute when ignition key is turned off	On
6 – Horn used for alarm Horn sounds during alarm/panic cycles	On
7 – Factory RKE system does not arm alarm	
Prevents factory RKE from arming security system. Still allows factory RKE to disarm security system	Off
Option Bank 3 – 6 chirps	Factory setting
 1 – Tach diagnostic mode This feature should only be used for troubleshooting purposes only! Car start function ignores tach input, cranks starter one time for one second. 	
WARNING – Over rev and stall detection is disabled.	Off
2 – Car start run time LED On – 15 minutes, LED Off – 10 minutes	Off
3 – Lock after start (Re)locks doors after remote start.	Off
 4 – One button start Activates remote start by press and hold of start button. 	Off
5 – Diesel timer Delays crank attempt 30 seconds after ignition on	Off
6 – Rear defrost output activation LED On-Activation after remote start, LED Off-Activation anytime	On

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Option Bank 4 – 7 chirps	
1 –Headlight Output Time (used only when option #5 below is in the LED Off position)*	
LED On – 20 seconds, LED Off – .5 seconds	On (20 sec.)
2 –Rear Defrost Output Time LED On – 10 minutes, LED Off – .5 seconds	Off (.5 sec.)
3 – Auxillary Output Time	
LED On – .5 seconds, LED Off – Time held	On (.5 sec.)
4 –Power Sliding Door Output Time (used only when option #5 below is in the LED On position)* LED On – .5 seconds, LED Off – Time held	On (.5 sec.)
5 -Converts headlight to act as power sliding doors	
(controlled by pressing Find/Panic and Start buttons simultaneously)	o."
LED On- Power Sliding Door Output	Off
* The Headlight Output and Power Sliding Door Output use the C-10 Red/White wire.	
Option Bank 5 – 8 chirps	
1 – Door switch input polarity	
	On (Positive)
1 – Door switch input polarity	
 1 - Door switch input polarity LED On - Positive, LED Off - Negative 2 - Unlock switch sense input polarity LED On - Positive, LED Off - Negative 3 - Key-in sense input polarity 	On (Positive)
 1 - Door switch input polarity LED On - Positive, LED Off - Negative	On (Positive)
 1 - Door switch input polarity LED On - Positive, LED Off - Negative	On (Positive) Off (Negative)
 1 - Door switch input polarity LED On - Positive, LED Off - Negative	On (Positive) Off (Negative)
 1 - Door switch input polarity LED On - Positive, LED Off - Negative	On (Positive) Off (Negative)

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RMST OPTION CHART

Option Bank 1 – 4 chirps	Factory setting
 Selectable chirps Enables arming/disarming confirmation chirps (uses horn). 	On
2 – Horn used for alarm Horn sounds during alarm/panic cycles	On
 3 – Tach diagnostic mode This feature should only be used for troubleshooting purposes only! Car start function ignores tach input, cranks starter one time for one second. WARNING – Over rev and stall detection is disabled. 	Off
4 – Car start run time LED On – 15 minutes, LED Off – 10 minutes	Off
 5 – One button start Activates remote start by press and hold of start button. 6 – Diesel timer 	Off
Delays crank attempt 30 seconds after ignition on.	Off
Option Bank 2 – 5 chirps	Factory setting
1 – Key-in sense input polarity LED On – Positive, LED Off – Negative	Off (Negative)
 2 – Learn tachometer With hood open start engine. System will chirp horn every five seconds if a valid tach signal is present. 	

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Deluxe RKE/VSS OPTION CHART

Option	Bank 1 – 4 chirps		Factory setti	ng
	ch adjustment		•	-
	ock adjustment			
	al alarm disable			
			Off	
	starter Interrupt			
	-	er key off event	Off	
5 – Passive		an land aff an and	0"	
		er key on event	Off	
	rs lock automatically 1 minutes a	after key off event	Off	
7 – Selectal		obirno (ucos born)	0.5	
8 – Silent cl		chirps (uses norn)	On	
	onfirmation chirp on second pres	ss of transmitter button		
	onfirmation chirp on first press o			
			On	
				10 CT
	Bank 2 – 5 chirps		Factory setti	ng
	door priority unlock door only unlocks on first press	of Disarm/Linlock		
			Off	
2 – Ignition				
		ed to on (run)	Off	
3 – Ignition				
		y is turned to off	Off	
4 – Delayeo	door lock for ignition lock			
Waits 3	seconds after key on event before			
		interior lights	Off	
5 – Illumina				
		ute when ignition key is turn	ned off On	
	ed for alarm		-	
	- · · ·		On	
7 – Noise co			On	
			Un	
	RKE system does not arm alarn ts factory RKE from arming secu			
			Off	
-				
-	Ballk 3 = 0 chilps		Factory setti	ng
	ht Output time (used only when 20 seconds LED Off -5 seconds LED Of		ED Off position) On (20	sec)
	<pre>/ Output Time</pre>	5001U3	On (20	360.)
		held	On (.5 s	ec.)
	sliding Door Output Time (used			
			On (.5 s	ec.)
	headlight output to act as powe			
	lled by pressing the Find/Panic		nultaneously)	
			Off	
Option	Bank 4 – 7 chirps			
1 – Door aja	ar switch input polarity			
		9	On (Pos	sitive)
2 – Unlock switch sense input polarity				
LED Or	n – Positive, LED Off – Negative		On (Pos	sitive)
	ar input entry delay			
		s with external door mounte	d RKE keypads Off	
	nk relay as Driver door unlock			
Switche	es Trunk release and Drivers doo	or unlock outputs	Off	
	2W7Z-16A901-AA			
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RKE/VSS & VSS OPTION CHART

Option Bank 1 – 4 chirps	Factory setting
1 – Lite-touch adjustment	
2 – Full shock adjustment	
3 – Optional alarm disable	
Disables security functionality.	Off
 4 – Passive starter Interrupt Starter interrupt activates 1 minutes after key off event. 	Off
5 – Passive arming Security system activates 1 minutes after key off event.	Off
6 – Passive door locks All doors lock automatically 1 minutes after key off event.	Off
 7 – Selectable chirps Enables arming/disarming confirmation chirps (uses horn). 	
8 – Silent choice On – Confirmation chirp on second press of transmitter button	
Off – Confirmation chirp on first press of transmitter button.	
Requires option #7 (above) to be ON.	On
Option Bank 2 – 5 chirps	Factory setting
1 – Drivers door priority unlock	
Drivers door only unlocks on first press of Disarm/Unlock,	0"
All doors unlock on second press within 5 seconds.	Off
 2 – Ignition lock All doors lock when ignition key is turned to on (run). 	Off
 3 – Ignition unlock All doors are unlocked when ignition key is turned to off 	Off
4 – Delayed door lockfor ignition lock	
Waits 3 seconds after key on event before activating ignition locked. Used on vehicles with theater dimming interior lights.	Off
5 – Illuminated exit Activates dome light output for one minute when ignition key is turned off	On
6 – Horn used for alarm Horn sounds during alarm/panic cycles	On
7 – Noise control Limits alarm trips to 5 per zone	On
8 – Factory RKE system does not arm alarm	
Prevents factory RKE from arming security system. Still allows	
factory RKE to disarm security system.	Off
Option Bank 3 – 6 chirps	Factory setting
1 – Door ajar switch input polarity LED On – Positive, LED Off – Negative	On (Positive)
2 – Unlock switch sense input polarity LED On – Positive, LED Off – Negative	On (Positive)
 3 – Door ajar input entry delay 5 Second entry delay. Used for vehicles with external door mounted RKE keypads 	
4 – Use trunk relay as Driver door unlock	
Switches Trunk release and Drivers door unlock outputs	

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RKE OPTION CHART

Option Bank 1 – 4 chirps	Factory setting
1 – Lite-touch adjustment	
2 – Full shock adjustment	
3 – Optional alarm disable	
Disables security functionality.	Off
4 – Passive starter Interrupt	
Starter interrupt activates 1 minutes after key off event	Off
5 – Passive arming	
Security system activates 1 minutes after key off event.	Off
6 – Passive door locks	
All doors lock automatically 1 minutes after key off event.	Off
7 – Selectable chirps	
Enables arming/disarming confirmation chirps (uses horn).	On
3 – Silent choice	
On – Confirmation chirp on second press of transmitter button	
Off – Confirmation chirp on first press of transmitter button.	2
Requires option #7 (above) to be ON.	On
Option Bank 2 – 5 chirps	Factory setting
I – Drivers door priority unlock	
Drivers door only unlocks on first press of Disarm/Unlock,	
All doors unlock on second press within 5 seconds.	Off
2 – Ignition lock	
All doors lock when ignition key is turned to on (run).	Off
3 – Ignition unlock	
All doors are unlocked when ignition key is turned to off	Off
4 – Delayed door lock for ignition lock	
Waits 3 seconds after key on event before activating ignition locked.	
Used on vehicles with theater dimming interior lights.	Off
5 – Illuminated exit	
Activates dome light output for one minute when ignition key is turned off	On
6 – Horn used for alarm	
Horn sounds during alarm/panic cycles	On
7 – Noise control	_
Limits alarm trips to 5 per zone	On
Option Bank 3 – 6 chirps	Factory setting
1 – Door ajar switch input polarity	
LED On – Positive, LED Off – Negative	On (Positive)
2 – Use trunk relay as Driver door unlock	
Switches Trunk release and Drivers door unlock outputs	Off

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LOT MODE ONLY OPTION CHART

Option Bank 1 – 4 chirps	Factory setting
1 – Lite-touch adjustment	
2 – Full shock adjustment	
 3 – Optional alarm disable Disables security functionality. 	Off
 4 – Passive starter Interrupt Starter interrupt activates 1 minutes after key off event. 	Off
5 – Passive arming Security system activates 1 minutes after key off event.	
6 – Passive door locks All doors lock automatically 1 minutes after key off event	
 7 – Selectable chirps Enables arming/disarming confirmation chirps (uses horn). 	
 8 – Silent choice On – Confirmation chirp on second press of transmitter button 	
Off – Confirmation chirp on first press of transmitter button.	
Requires option #7 (above) to be ON.	On
Option Bank 2 – 5 chirps	Factory setting
1 – Drivers door priority unlock	
Drivers door only unlocks on first press of Disarm/Unlock,	o <i>"</i>
All doors unlock on second press within 5 seconds.	Off
2 – Delayed door lock for ignition lock	
Waits 3 seconds after key on event before activating ignition locked. Used on vehicles with theater dimming interior lights.	Off
3 – Horn used for alarm Horn sounds during alarm/panic cycles	On
4 – Noise control Limits alarm trips to 5 per zone	On
Option Bank 3 – 6 chirps	Factory setting
 Tach Diagnostic Mode Car start function ignores tach input, cranks starter one time for one second. WARNING – Over rev and stall detection is disabled. 	Off
2 – Car start run time LED On – 15 minutes, LED Off – 10 minutes	-
3 – Lock after start (Re)locks doors after remote start.	
 4 – One button start Activates remote start by press and hold of start button. 	
5 – Diesel timer	
Delays crank attempt 30 seconds after ignition on.	Off
Option Bank 4 – 7 chirps	Factory setting
 Door ajar switch input polarity LED On – Positive, LED Off – Negative 	On (Positive)
3 – Key-in sense input polarity LED On – Positive, LED Off – Negative	Off (Negative)
 5 – Use trunk relay as Driver door unlock Switches Trunk release and Drivers door unlock outputs 	Off
 6 – Learn tachometer With hood open or brake pedal pressed start engine. System will chirp horn every five seconds if a valid tach signal is present. 	

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WIRING HARNESS LEGEND

EXTENDED FUNCTION

MAIN HARNESS

CAR START

1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6
10 11 12 13 14 15 16	13 14 15 16 17 18 19 20 21 22 23 24	7 8 9 10

Main Harness (24-way)			Car Start Harness (10-way)			
Terminal	Wire Color	Function	Terminal	Wire Color	Function	
A-1	WHITE	Parking Light Output	B-1	BLUE	HVAC2 Feed	
A-2	BLUE	Door Lock Output	B-2	RED	HVAC1 Feed	
A-3	BLACK/WHITE	Dome Light Output	B-3	PINK/WHITE	Ignition 2 Output	
A-4	RED	Battery	B-4	ORANGE	HVAC 1 Output	
A-5	BLACK	Ground	B-5	ORANGE/WHITE	HVAC 2 Output	
A-6	VIOLET/RED	Starter Interrupt (Key	B-6	Open	-	
		side)	B-7	BROWN	Brake Input	
A-7	PINK	Ignition 1 Input/Output	B-8	BLACK/WHITE	Key-in-sense Input	
			B-9	VIOLET/WHITE	Tach Sense Input	
A-8	VIOLET	Starter Interrupt (Motor	B-10	BLUE/BLACK	Active Out	
A-9	BROWN	side) Disarm Input	Extended	Function Harness (16	-way)	
A-10	YELLOW/WHITE	Door Trigger Input Pull-	Terminal	Wire Color	Function	
// 10		up	C-1	BLUE/BLACK	Door Lock Switch Input	
A-11	WHITE/BLUE	Arm Input	C-2	BLACK/GREEN	AUX 3	
A-12	LT.GREEN	Unlock Switch Sense Input	C-3	GREEN/BLACK	Door Unlock Switch Input	
A-13	TAN	Trunk Release/Driver Door Unlock Release	C-4	LT.GREEN/BLACK	Factory Perimeter Alarm Disarm Output	
		Output	C-5	Open	-	
A-14	GREEN	Door Unlock Output	C-6	Open	-	
A-15	RED	Siren Feed	C-7	BROWN/TAN	Trunk Release Disarm	
A-16	BLACK	Siren Output			Input	
A-17	BROWN	Programming/Override	C-8	BLUE	Trunk Ajar Input	
A-18	BROWN	Button Programming/Override Button	C-9	TAN/RED	Trunk Release/Driver Door Unlock Switch Input	
A-19	GRAY	Hood Open Switch Input	C-10	RED/WHITE	Headlight Output / AUX 1	
A-20	GREEN/VIOLET	Door Ajar Switch Input	C-11	BLUE/WHITE	Rear Defroster Output	
A-21	BROWN/BLACK	Horn Relay Output			/ AUX 2	
A-22	RED	LED	C-12	GREEN/WHITE	Memory 1 Output	
A-23	BLACK	LED	C-13	YELLOW/GREEN	Memory 2 Output	
A-24	BLUE/GREEN	(-) Drivers Door	C-14	Open	-	
		Unlock/Trunk release	C-15	Open	-	
		Output	C-16	Open	-	

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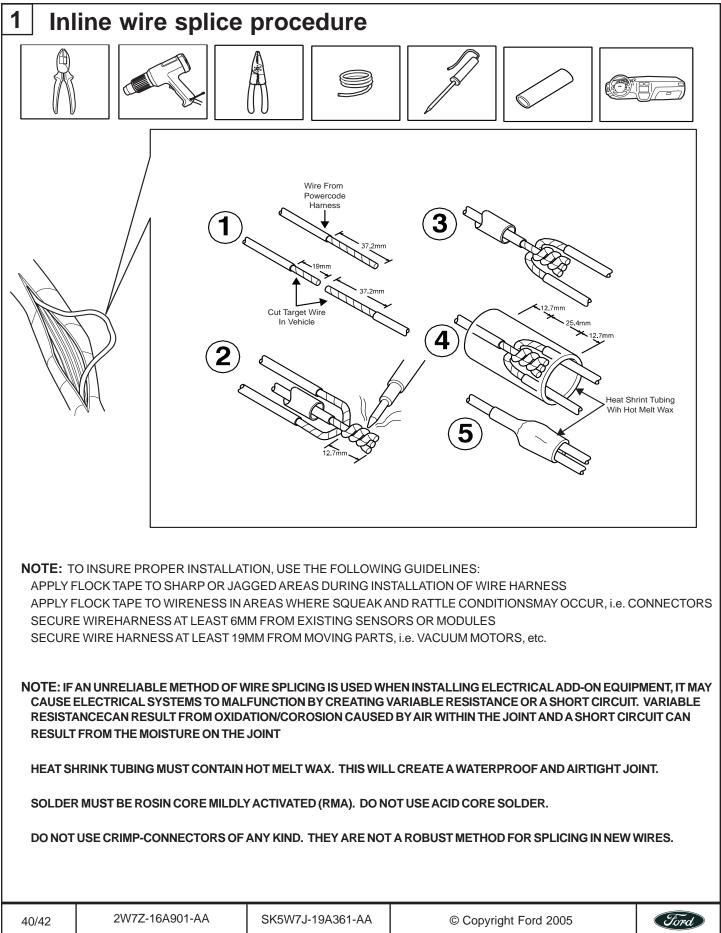
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Circuit Testing - Identifying Circuit Polarity

N F	Negativ Positive	folt Meter (DVM) set to "DC Vo e lead (Black) connected to a lead (Red) connected to circl e reading from meter.	chassis ground.	DC Volts		
2	Actuate	the circuit under test.				
р Р Р Р	A readir pressed Positive A readir pressed	e reading from meter. ng of 0V transiting to +12V wh , indicates that the circuit und polarity circuit. ng of +12V transiting to 0V wh , indicates that the circuit und re polarity circuit. NOTE : When testing a Nega the stand by voltage will not some cases the reading obs actuating the circuit could be volt. However, when actuate voltage will be 0V or very clo	er test is a en the switch is er test is a tive polarity circuit, always be +12V. In erved prior to e less than one (1) d the observed	OV - 12V	12V→0 Image: state st	
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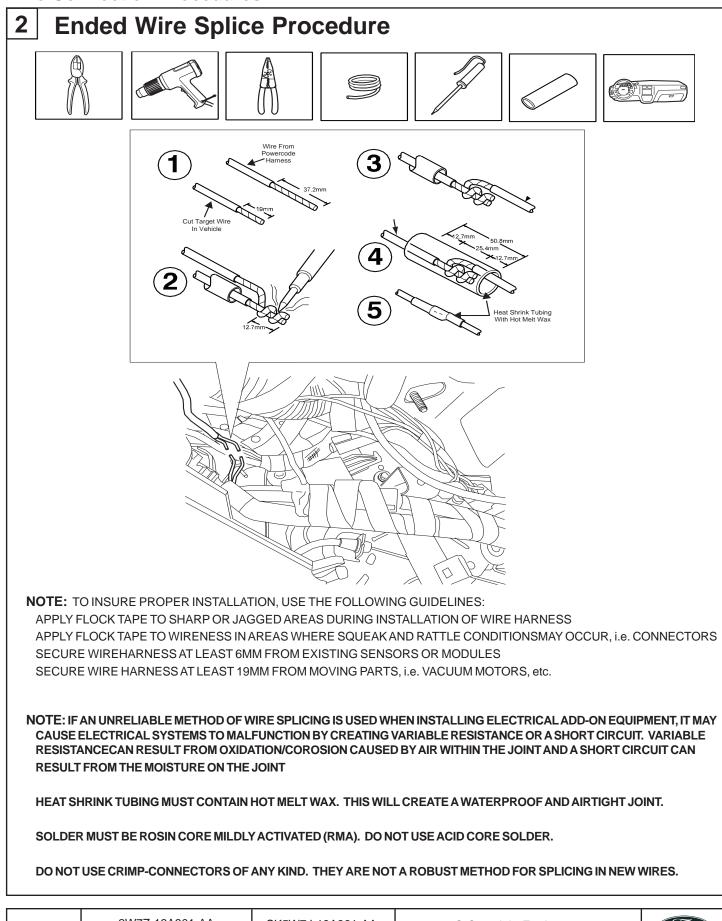
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Wire Connection Procedures



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Wire Connection Procedures



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VEHICLE SPECIFIC WIRING DIAGRAMS

1	This					
1					re provided for all systems. The diagrams are cific wiring diagram for installing a RKE/VSS/F	
	a 20	002 Explorer Sport	t:			-
	1.		-	-	the bookmark for "2002MY".	
	2.			t of the bookmark for for "E		
	3.	Select the system	n that you are in	nstalling in the links reveale	d under Explorer Sport/Sport Trac.	
	4.	Then using the	buttons in t	the Acrobat toolbar, you ca	n view the individual pages in the drawing.	
2						
	(A)	Title block:				
				by year/make/model;		
		RKE or w/o in this box	b Factory RKE. does not apply	Note: If you are working or	irred on the vehicle. This will generally be: ALL a vehicle with factory RKE, a drawing that lissely, if you are working on a vehicle without factors, box.;	ts "w/o RKE"
		RemoteRemote	Start System w	rith Deluxe Vehicle Security ith Keyless Entry —> RKE/I	(System name> Short name used in title blo and Keyless Entry —> RKE/VSS/RMST RMST	ock);
		 Deluxe \ Vehicle \$ Vehicle \$ 	/ehicle Security Security Systen	v System with Keyless Entry n with Keyless Entry —> RK n for Vehicles Equipped with	r —> Deluxe RKE/VSS (shown in graphic belov E/VSS n Factory Keyless Entry —> VSS	w)
		-		umber of pages which make	e up the complete drawing;	
		Box 5: Revision d	ate of drawing.			
	B	Lists the systems	wires by Conn	ector/Terminal, Wire color,	and function.	
	Õ	Lists the vehicle ovehicle's circuit p	-	hicle wire color and circuit	polarity - Circuit name (wire color) 🕀 or 🕞	(indicates
	(D)		• /	nicle. Clicking on the text wi	Il open another window showing a color photo	graph of the
	\bigcirc			ernet connection required).		0
	E				feature" text, will jump to a diagram showing to button will return to the original page.	he connection
		Vehicle (Year/Make/Model)				
Box 1		'02/'03 Explorer S Equipment or Trim level	Sport / Sport Trac System(s) applicable to:	\prec \square		
Box 2	2	 w/Factory RKE 	Deluxe RKE/VS			
Box 4	1	Page 1 of 4	Revision Date 7/30/02	Box 5 MAKE TH	IS CONNECTION FIRST!	
		DRIVERS SIDE K			Dome Light (BLACK/BLUE)	
		Color	Function			HARNESS UNDER DRIVERS SIDE
		A-5 BLACK A-20 GREEN/VIOL	Ground ET Door Ajar Swit	ch Input		DOOR SILL PLATE
		A-3 BLACK/WHIT	E Dome Light Ou	utput	Lock Motor (PINK/BLACK)	
		A-2 BLUE A-14 GREEN	B poor Lock Out			
		A-12 LT.GREEN	nlock Switch			
		A-11 WHITE/BLUE C-4 LT GREEN/BI	LACK Factory alarm	disarm output	Driver Door Ajar Switch	
		A-9 BROWN A-24 BLUE/GREEN	Disarm Input N Driver Door Ur	nlock Output		DRIVER DOOR
			I		Driver Door Unlock Motor	JAMB BOOT HARNESS
					(RED/ORANGE)	
				しい	Optional Installation Feature	
					See Optional connections page	
				Cut and tape off if not used		
				Cut and tape off if not used		
		2W7Z-16/		Cut and tape off if not used		Ford

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