

Platform #04

Firmware: PKFORD

Installation Manual (1\4 Pages)

Description: FORD ALL PATS Transponder Data Bypass (3 in 1)

Functions: Override OEM PATS Encrypted Transponder Immobilizer Via Data (No Key Required)

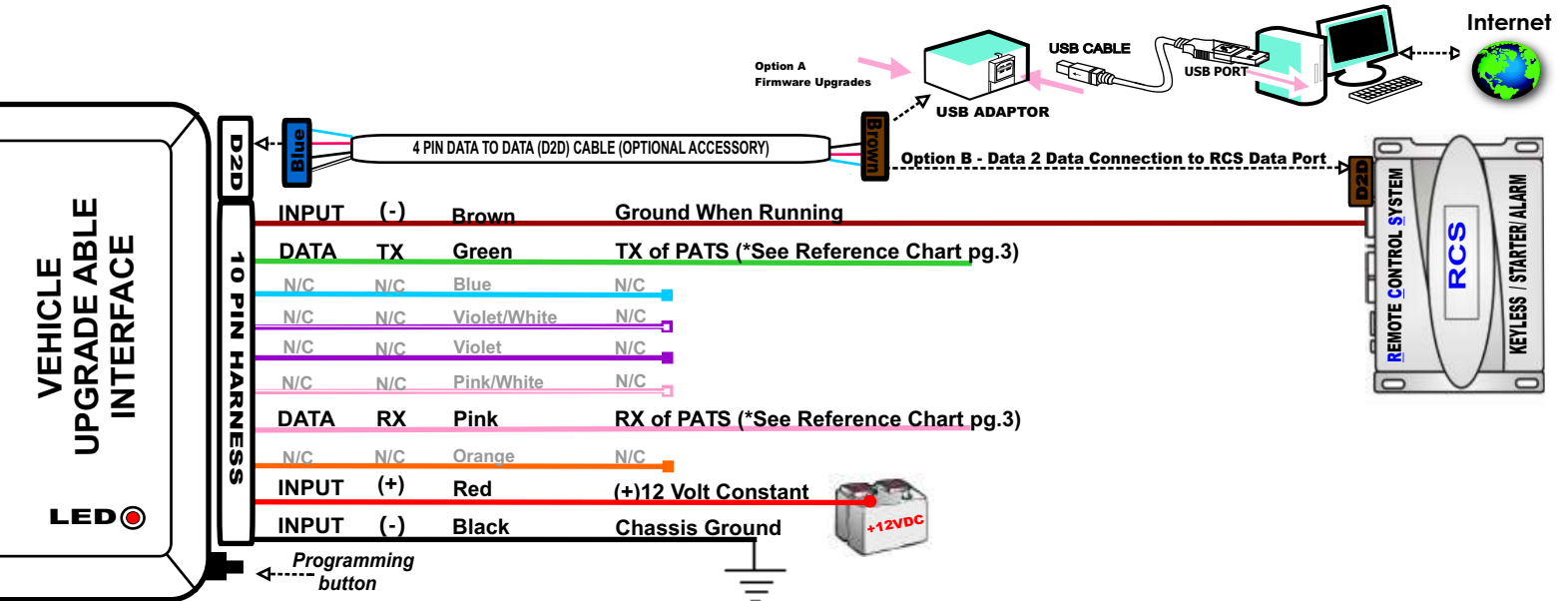
Downloadable Firmware for Platform #04: PKFORD



WARNING: Before beginning your install go to www.XPRESSKIT.com and be sure to print the LATEST corresponding installation manual for the firmware that is flashed to the platform you are using.

Section A

See Wire Connection Guide for detailed information regarding wire functionality



Section B

WIRE GUIDE : CONNECTIONS

10 PIN HARNESS (ANALOGUE Wire to Wire Connections)

PIN#	WIRE COLOR	VEHICLE TYPE	I/O STATUS	(-) / (+)	Connect Location	SPECIFIC WIRE CONNECTION LOCATION	ACTIVATION and/or FUNCTIONALITY
1	Brown	N/A	Input	(-)	RCS	Ground When Running output of remote starter. *NOTE: <u>Not</u> required when using D2D cable.	PATS transponder Immobilizer Bypass Via Data
2	Green		Data	TX	Vehicle	TX Wire on PATS Connector (See PATS Reference Chart pg.2)	TX - Transmits Data to Ford PATS module
3	Blue	N/C	N/C	N/C	N/C	N/C	N/C
4	Violet/White	N/C	N/C	N/C	N/C	N/C	N/C
5	Violet	N/C	N/C	N/C	N/C	N/C	N/C
6	Pink/White	N/C	N/C	N/C	N/C	N/C	N/C
7	Pink		Data	RX	Vehicle	RX Wire on PATS Connector (See PATS Reference Chart pg.2)	RX - Receives Data from FORD PATS module
8	Orange	N/C	N/C	N/C	N/C	N/C	N/C
9	Red	N/A	Input	(+)	Vehicle	Constant (+) 12 Volt Source *NOTE: <u>Not</u> required when using D2D cable.	+12 Volt Power Source
10	Black	N/A	Input	(-)	Vehicle	Chassis Ground *NOTE: <u>Not</u> required when using D2D cable.	Chassis Ground Source

Legend RCS = Remote Control System N/C = No Connection N/A = Not Applicable W2W= analogue wire to wire D2D= data 2 data

DATA to DATA PORT (D2D) : Blue connector of D2D Cable plugs into the upgradeable vehicle interface module.

OPTION A: - D2D Port used to connect to USB Bootloader adaptor & computer to download & flash vehicle interface firmware updates.

OPTION B: - D2D Port used to connect to the data port of a remote control system equipped with ClearCode Vehicle Interface Protocol.

Remote control systems designed with **ClearCode VIP** can securely communicate via the D2D cable to transmit & receive data commands which initiate specific vehicle function such as immobilizer override, lock doors & arm alarm. As an enhanced security feature, the vehicle interface module automatically deactivates the analogue override input (brown wire) when D2D protocol is detected.

Section C

INSTALLATION

Use the **PATS TYPE & CONNECTOR REFERENCE CHART** on page 2 to determine the PATS connector type and to identify the PATS TX and RX wire location in the connector. Once all wires are properly connected, proceed to **PROGRAMMING** section on page 3.

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Section D

PATS TYPE & CONNECTOR REFERENCE CHART

1-A Number = PATS Type
Letter = Connector Type

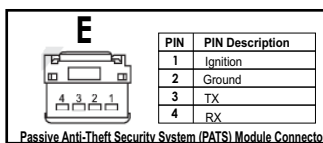
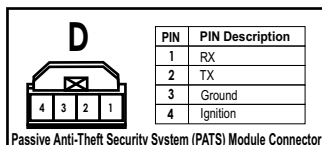
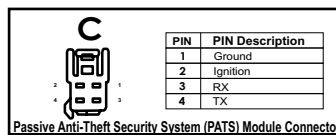
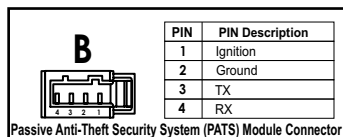
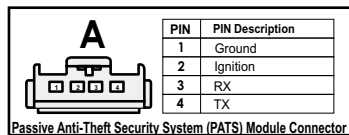
	2008	2007	2006	2005	2004	2003	2002	Built After 07/24/2000 2001	Built Before 07/24/2000 2001	2000	1999
Aviator			3-B	3-B	3-B	3-B					
B Series		3-C	3-C	3-C	3-C	3-C	3-C	1-A	1-A	1-A	1-A
Blackwood						1-A	1-A				
Continental							1-A	1-A	1-A	1-A	1-A
Contour									1-B	1-A	1-A
Cougar						1-B	1-B	1-B	1-B	1-B	1-B
Crown Victoria		3-E	3-E	3-E	3-C	3-C	1-A	1-A	1-A	1-A	1-A
Edge		3-D									
Escape		3-B	3-B	3-B	3-B	3-B	3-B	3-B	3-B	2-B	
Escape (Hybrid)		3-B	3-B	3-B							
Excursion				1-A	1-A	1-A	1-A	1-A	1-A	1-A	
Expedition		3-B	3-B	3-B	3-B	3-B	3-B	1-A	1-A	1-A	1-A
Explorer	3-E	3-E	3-B	3-B	3-B	3-B	3-B	1-A	1-A	1-A	1-A
F150	3-B	3-B	3-B	3-B	3-B	1-C	1-A	1-A	1-A	1-A	1-A
F150 Heritage					1-C						
F250-F350-F450	3-E										
Five Hundred		3-E	3-E	3-E							
Focus		3-B	3-B	2-B	2-B	2-B	2-B	2-B	2-B	2-B	
Freestar		3-C	3-C	3-C	3-C						
Freestyle		3-E	3-E	3-E							
Fusion	3-E	3-E	3-E								
Grand Marquis		3-E	3-E	3-E	3-C	3-C	1-A	1-A	1-A	1-A	1-A
Ford GT		3-B	3-B								
Lincoln LS		3-B	3-B	3-B	3-B	3-B	2-B	2-B	2-B	2-B	
Marauder					3-C	3-C	3-C				
Mariner		3-B	3-B	3-B							
Mark LT		3-B	3-B								
Mazda 3		3-D	3-D	3-D	3-D						
Mazda 5		3-D	3-D								
Mazda 6		3-D	3-D	3-D	3-D	3-D					
Mazda CX-7	3-D	3-D									
Mazda CX-9	3-D	3-D									
Mazda RX8		3-D	3-D	3-D	3-D						
MKX		3-E									
MKZ		3-E									
Milan	3-E	3-E	3-E								
Montego		3-E	3-E	3-E							
Monterey		3-C	3-C	3-C	3-C						
Mountainer		3-E	3-E	3-B	3-B	3-B	3-B	1-A	1-A	1-A	1-A
Mustang		3-E	3-E	3-E	1-A	1-A	1-A	1-A	1-A	1-A	1-A
Mystique										1-B	1-B
Navigator	3-B	3-B	3-B	3-B	3-B	3-B	3-B	1-A	1-A	1-A	1-A
Ranger		3-C	3-C	3-C	3-C	3-C	3-C	1-C	3-C	1-C	1-C
Sable				3-A	3-A	3-A	3-A	3-A	3-A	3-A	1-A
Sport Trac	3-E	3-E	3-E	3-B	3-B	3-B	3-B	3-A	1-A	1-A	
Taurus	3-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	3-A	1-A
Thunderbird				3-B	3-B	3-B	2-B			A	A
Town Car		3-E	3-E	3-E	3-C	3-C	1-A	1-A	1-A	1-A	1-A
Tribute		3-B	3-B	3-B	3-B	3-B	3-B	3-B	3-B		
Windstar					3-C	3-C	3-A	3-A	1-A	1-A	1-A
Zephyr	3-E	3-E	3-E								

↑ USE PATS TYPE REFERENCE CHART TO DETERMINE REQUIRED PROGRAMMING TYPE. ↓

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PATS CONNECTORS



Section E

PROGRAMMING

Programming Types cover all PATS. (PATS TYPE 1) or (PATS TYPE 2 & 3)

TYPE 1 PATS PROGRAMMING:

ONE Valid Key Req.'d to program

- 1) Insert Valid Ign. key & turn to "ON" position. Module LED will turn ON for a few seconds then turn OFF. Module is programmed. LED will turn on with vehicle's theft security indicator.

TYPE 2 & 3 PATS PROGRAMMING:

TWO Valid Keys Required to program

Max 5 second intervals between each step. If 5 seconds is exceeded, vehicle will exit "on board programming" and you must restart.

- 1) Insert 1st valid Ign. key & turn to "ON" position until security light turns off. Remove 1st valid key. Within 5 secs.
- 2) Insert 2nd valid Ign. key & turn to "ON" position until security light turns off. Remove 2nd valid key. Within 5 secs.
- 3*) Remote start vehicle. Module LED will flash once then turn on again for (3) secs. Module is programmed.

***FOR MANUAL TRANSMISSION VEHICLES:** Instead of using remote starter to power up PATS system & activate module during the last programming step, temporarily connect brown wire of bypass module to ground, then use a wire (jumper) to power up the vehicle ignition wire which will power up the PATS system. Once kit is programmed connect brown wire to remote starter GWR.

TESTING:

Wait (2) minutes after programming then start engine by valid ign. key. Stop engine & remove key then remote start.

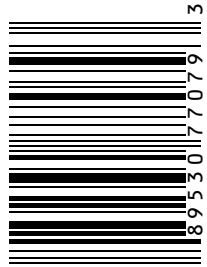
TROUBLESHOOTING:

- A) If LED stays on solid or flashes rapidly, reverse the TX and RX wire connections.
- B) If module fails to program make sure brown wire is not getting a trickle ground from remote starter prior to last programming step.
- C) If module fails to program or module was previously used on another vehicle then RESET the Module.

RESET:

Press & hold program button while plugging in 10 pin harness. When LED turns on release button. When LED turns off Reset is complete.

This Interface kit / Data Bus Interface part has been tested on the listed vehicles. Other vehicles will be added to the select vehicle list upon completion of compatibility testing. Visit website for latest vehicle application guide. **DISCLAIMER:** Under no circumstances shall the manufacturer or the distributors of the bypass kit / data bus interface part(s) be held liable for any consequential damages sustained in connection with the part(s) installation. The manufacturer and its distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the interface kit / data bus interface part(s) other than its replacement. N.B.: Under no circumstances shall the manufacturer and distributors of this product be liable for consequential damages sustained in connection with this product and neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than the replacement of this product only.



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IM-04

OMEGA

RESEARCH AND DEVELOPMENT, INC.

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IM04 Compatibility Chart												
	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	
Ford												
Contour												
Crown Victoria												
Edge												
Escape												
Escape Hybrid												
Excursion												
Expedition												
Explorer												
F-450 Lariat												
F150												
F250/F350												
Five Hundred												
Focus												
Freestar												
Freestyle												
Fusion												
Mustang												
Ranger												
Sport Trac												
Taurus												
Thunderbird												
Windstar												
Lincoln												
Aviator												
Blackwood												
Continental												
LS												
Mark LT												
MKX												
MKZ												
Navigator												
Town Car												
Zephyr												
Mazda												
B3000												
B4000												
CX-7												
CX-9												
Mazda 3												
Mazda 5												
Mazda 6												
MazdaSpeed6												
Miata												
RX-8												
Tribute												
Mercury												
Cougar												
Grand Marquis												
Marauder												
Mariner												
Mariner Hybrid												
Millan												
Montego												
Monterey												
Mountaineer												
Mystique												
Sable												

Number of keys required to program kit: 2
Number of keys required for kit operation: 0

PROTECTORY U.S. PATENTS: 6,011,480 B1; 6,245,004 B1; 6,248,216 B1; 6,275,147 B1; 6,297,791 B1; 6,324,459 B1; 6,529,151 B1; 6,559,326 B1; 6,597,703 B1; 6,604,989 B1; 6,639,488 B1; 6,694,750 B1; 7,010,402 B1; 7,016,830 B1; 7,031,826 B1; 7,046,126 B1; 7,061,137 B1; 7,068,153 B1; 7,265,679 B1; CON. PATENT: 2,320,248; 2,414,991; 2,415,011; 2,415,023; 2,415,038; 2,415,041; 2,420,847; 2,428,670; 2,454,089 EUROPEAN PATENT: 1,053,128 PAT. PENDING: 2,391,306. MADE IN CANADA