

IM04-PKFM

Firmware: PKFORD

Installation Manual (1/3 Pages)

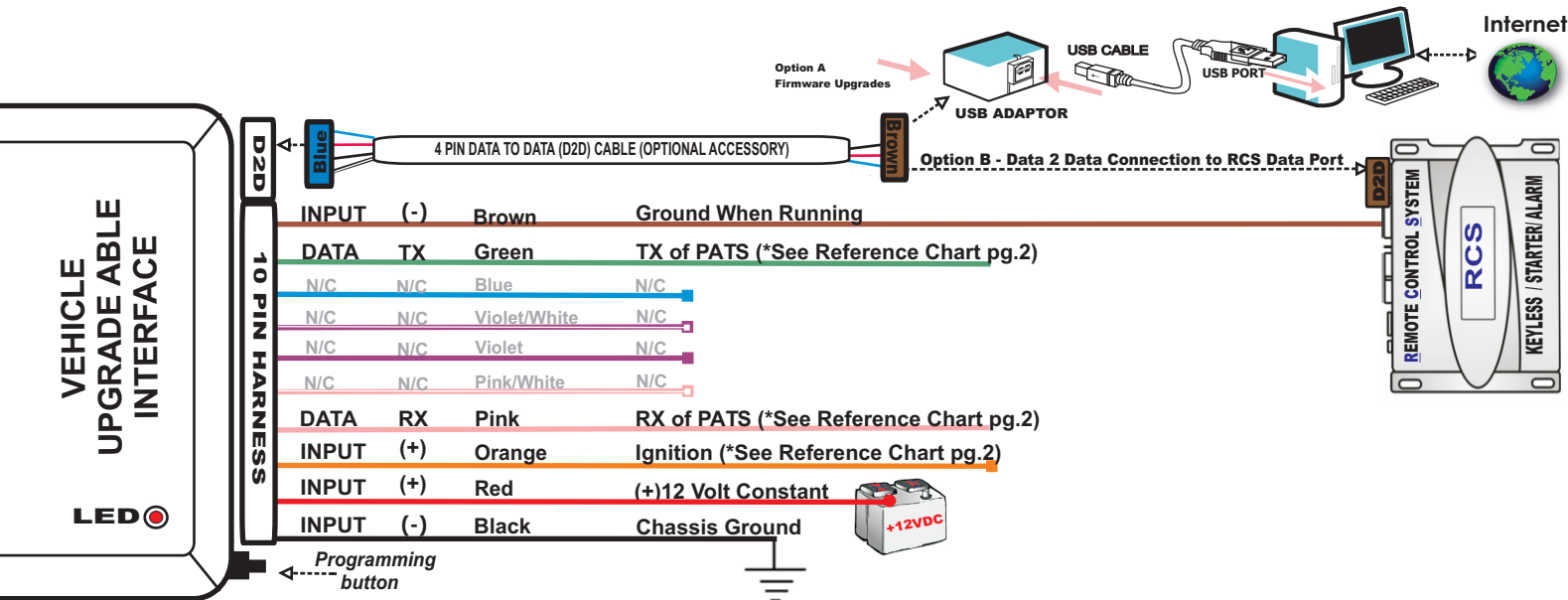
Description: FORD ALL PATS Transponder Data Bypass (3 in 1)

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

 **WARNING:** Before beginning your install go to www.INTELLIKITS.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.

Platform #04

Firmware: PKFORD

Installation
Manual (2/3 Pages)

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

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Section D

PATS TYPE & CONNECTOR REFERENCE CHART

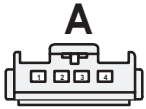
1-A Number = PATS Type
Letter = Connector Type

	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.

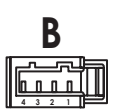
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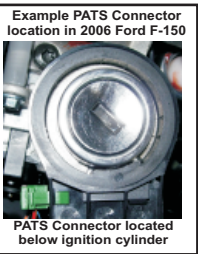
PIN	PIN Description
1	Ground
2	Ignition
3	RX
4	TX

Passive Anti-Theft Security System (PATS) Module Connector



PIN	PIN Description
1	Ignition
2	Ground
3	TX
4	RX

Passive Anti-Theft Security System (PATS) Module Connector



Example PATS Connector location in 2006 Ford F-150

PATS Connector located below ignition cylinder



PIN	PIN Description
1	Ground
2	Ignition
3	RX
4	TX

Passive Anti-Theft Security System (PATS) Module Connector



PIN	PIN Description
1	RX
2	TX
3	Ground
4	Ignition

Passive Anti-Theft Security System (PATS) Module Connector



PIN	PIN Description
1	Ignition
2	Ground
3	TX
4	RX

Passive Anti-Theft Security System (PATS) Module Connector

PROGRAMMING

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

TYPE 1 PATS PROGRAMMING:

ONE Valid Key Required 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:

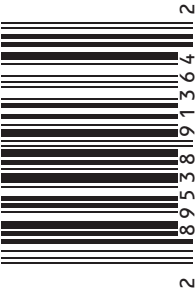
Wait (2) minutes after programming then start engine by valid ign. key. Stop engine & remove key then remote start.

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.



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OMEGA
RESEARCH AND DEVELOPMENT, INC.