

Okay, now pay attention...

The following is a rundown of a few of the common features and components of the FTIntegration harness installation guides. Please take a few minutes to read through the information provided, it will hopefully provide some clarity to the guide layout and graphic elements used, and limit any possible confusion that might be encountered when referencing our guides...

Labels & Markers

Labels

These are similar to what you see attached to the harnesses.

White* labels describing specific connections, connector placement, or firmware for the installer.

These are meant to limit confusion during the installation.

PRK LT/PWR	CH4
WTS (+)	CH5
PRK MUX	GM7/12
BLADE	GM8
BLADE 1	MA3
BLADE 2	HA8
NI4 BLADE	NI3
IGN A	NI8/9

Markers

These are to help identify connections not specified elsewhere.

Gray* labels describing circuit type, function, and behavior of wires not marked or not provided.

These also are meant to limit confusion during the installation.

START	WTS (-)
MUX	WTS (+)
PK LIGHT OUTPUT	REARM
PK LIGHT INPUT	PK LIGHTS (-)
LOCK	PK LIGHTS (+)
UNLOCK	OPEN AUTO LT
ARM	CAN H/L
STATUS	HOOD

* Remember: White = Labels that exist on the harnesses, Gray = Markers that indicate wires not marked with labels, circuit/feature description, or additional wiring not included with the harness kit.

Wires

Wires

All circuit wiring in the guides have been drawn using colors associated with either the product or vehicle wiring.

The guide illustrations are intended to be viewed** on mobile devices with pan/zoom capabilities, for better presentation and increased accuracy.

white
white/red
white/black
white/violet
white/blue
black
black/gray
black/blue
black/green
Insulation color / Stripe color
white/red

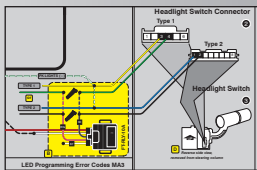
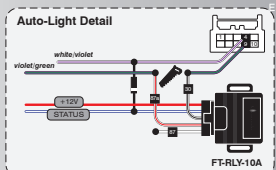
**Although intended for viewing on computers and mobile devices, wire colors are also labeled for those wishing to print the documents in black & white, or those affected with a visual color deficiency.

Details, Warnings, and Random Identifiers

Details

Details can be gray, white, or yellow boxes with a dashed border, intended to outline a specific connection method or procedure that requires greater detail than possible in the space provided for the wiring diagram. Details are not typically considered vital to the installation, gray boxes are of minor concern, white boxes indicate a moderate concern, and yellow boxes indicate that an increased attention to detail is required.

The information we've outlined in the detail boxes typically suggests a preferred method of completion, and not intended to suggest being the only way to complete the necessary work. You may follow our preferred methods, or you may choose to do the required work in another way, as long as the circuit interface is done in a safe manner, and industry best practices are followed to ensure a safe and long-lasting installation.

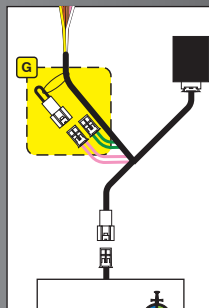
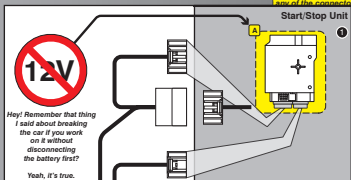


Warnings

Warnings boxes are yellow, and combined with a yellow identifier button directing the installer to an associated note or directive outlining special procedures or harness configuration required.

Warnings are not to be ignored.

They are provided to ensure that the installation is completed in a safe and efficient manner, where vehicle damage is avoided, and the installed system performs as intended.

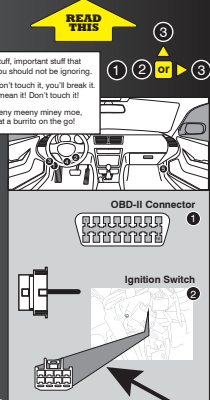


Random Identifiers

The guide illustrations include a variety of identifiers to help guide the installer toward specific notes or information that has been provided to ensure that the installation is able to be completed with ease.

Yellow buttons indicate a connection to notes located at the top of the wiring diagram, each button is lettered and corresponds to a note bearing the same. They are also used as option indicators, highlighting where choosing between two or more options is necessary.

Black buttons are used to associate components shown in the right info bar of the wiring diagram with the approximate location in the vehicle dash, cabin space, or under the hood, shown in the component locator illustration.



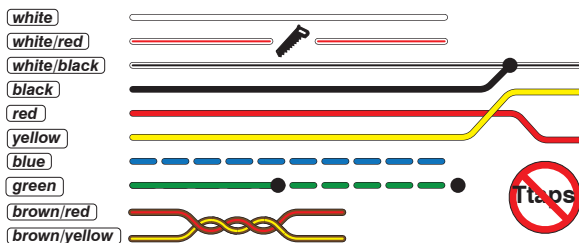
Lines & Connectors

Lines

Wires are depicted in an assortment of colors and styles to illustrate the installation requirements.

At left are some samples of typical guide elements, regarding wires and how they are illustrated:

white wire - straight non-terminated
white/red - wire that has been cut
white/black & black - wires connected (dot)
red & yellow - wires crossed (not connected)
blue & green - not included or alternate connection
brown/red & brown/yellow - wires twisted

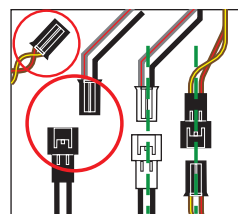


Physical connections, whether Mil-splice, soldered, or other methods not necessarily approved or preferred are indicated by a black dot at the point of connection. Any wire drawn that crosses another, and does not have a dot at the point where they cross, should continue along its path without connection until it terminates at a connector housing or a point where a dot indicating a connection is reached. The universal nature of the product provides wiring that may not be used in some installations, as a matter of safety, all unused wires should be trimmed and secured to the main body/trunk of the harness in use.

Connectors

An attempt has been made to show connectors as they appear in real life so that they are easily identified, even when no labels are attached. Male and female connector housings that appear in-line with each other are to be connected when installed, those that are not aligned are not intended to be connected to each other, and should be secured to prevent entanglement or short circuits from happening.

The illustration at right indicates **no connection** made in the red circles, and where **connections** are being made there is a green dashed line. When the harness connector mates with a vehicle component, there are pointers to illustrate those connections. One can be seen in the image above, at the lower right corner.



That should pretty much do it...

A great deal of thought and energy has gone into the creation of the FTIntegration Harness products and installation guides. We've tried to ensure more reliable, faster, and profitable installations will result from using the products, and we welcome your input regarding your experience with both. If you find a mistake, or have a tip to share, please let us know so we can make the necessary corrections/additions.

THE TEAM
WADE - JOSH - JOSE - DOUG - NICK - MIKE R - JEFF - JASON - MIKE A



CONTROL MODULE CONNECTOR LEGEND

- RED (+) 12V Constant
- RED/WHITE (+) 12V Constant
- BLUE (+) 12V selectable (Default IGN2)
- GREEN (+) 12V ignition (output/input)
- GREEN /WHITE (+) 12V selectable (Default PK lights)
- WHITE (+) 12V selectable (Default Accessory)
- YELLOW (+) 12V Starter
- BLACK Ground

(BLACK)
 8-Pin Main Power Port
 All Controllers

- BLUE/WHITE (-) 250mA GWA (POC #1)
- WHITE (-) 250mA HORN OUT (POC #2)
- BLUE/GREEN (-) 250mA LOCK OUT (POC #3)
- BLUE (-) 250mA UNLOCK OUT (POC #4)
- ORANGE/WHITE (-) 250mA DISARM OUT (POC #5)
- ORANGE (-) 250mA REARM OUT (POC #6)
- VIOLET/WHITE (-) 250mA TRUNK OUT (POC #7)
- BLACK (-) 250mA STATUS OUT (POC #8)
- GREEN/WHITE (-) 250mA LIGHT OUT (FIXED)
- RED/BLACK (-) 250mA START OUT (FIXED)
- BROWN (+) 1A SIREN OUT
- LIGHT BLUE/WHITE (+) FOOT BRAKE IN
- LIGHT BLUE (-) E BRAKE IN (PIC #1)
- VIOLET/BLACK (-) TRUNK TRIGGER (PIC #2)
- RED/WHITE (+/-) DOOR TRIGGER IN (JUMPER)
- BROWN/WHITE (-) KEYSense IN (PIC #3)
- PINK (+) TRIGGER START (PIC #4)
- GRAY/BLACK (-) HOOD IN
- YELLOW/BLACK (AC) TACH IN
- WHITE/BLACK (-) 250mA ACCESSORY OUT (FIXED)

(GRAY)
 20-Pin I/O Port
 CM7000AS/CM7200S

- GREEN/WHITE (-) PARKING LIGHT OUT (POC #1)
- BLUE (-) UNLOCK OUTPUT (POC #3)
- ORANGE (-) REARM OUTPUT (POC #5)
- WHITE (-) HORN OUTPUT (POC #7)
- LIGHT BLUE/WHITE (+) FOOT BRAKE INPUT
- PINK (+) TRIGGER START INPUT
- LIGHT BLUE (-) TURBO TIMER INPUT
- RED (+) DOOR TRIGGER INPUT
- BROWN (+) 1A SIREN OUTPUT
- BLUE/LT. GREEN (-) LOCK OUTPUT (POC #2)
- BLACK (-) STATUS OUTPUT (POC #4)
- ORANGE/WHITE (-) DISARM (POC #6)
- GRAY/BLACK (-) HOOD PIN INPUT
- PINK/BLACK (-) TRIGGER START INPUT
- YELLOW/BLACK (A/C) TACH/ALT SENSE INPUT
- VIOLET/BLACK (-) TRUNK INPUT
- RED/WHITE (-) DOOR TRIGGER INPUT
- BLUE/WHITE (-) STARTER KILL OUTPUT

(GRAY)
 18-Pin I/O Port
 CM900AS

- GREEN/WHITE (-) PARKING LIGHT OUT (POC #1)
- BLUE (-) UNLOCK OUTPUT (POC #3)
- ORANGE (-) REARM OUTPUT (POC #5)
- WHITE (-) HORN OUTPUT (POC #7)
- LIGHT BLUE/WHITE (+) FOOT BRAKE INPUT
- RED (+) TRIGGER START INPUT
- BLUE/GREEN (-) LOCK OUTPUT (POC #2)
- BLACK (-) STATUS OUTPUT (POC #4)
- ORANGE/WHITE (-) DISARM (POC #6)
- GRAY/BLACK (-) HOOD PIN INPUT
- RED/WHITE (-) TRIGGER START INPUT
- YELLOW/BLACK (A/C) TACH/ALT SENSE INPUT

(GRAY)
 12-Pin I/O Port
 CM900S

- RED (+) 12V
- VIOLET/WHITE (-) 250mA TRUNK RELEASE OUTPUT
- ORANGE/BLACK (-) 250mA PRIORITY UNLOCK OUTPUT
- BLUE (-) 250mA UNLOCK OUTPUT
- BLUE/BLACK (-) 250mA LOCK OUTPUT
- BLACK (-) GROUND

(WHITE)
 6-Pin Lock Port

- WHITE (+) 12V ACCESSORY OUTPUT
- YELLOW (+) 12V STARTER OUTPUT
- GREEN (+) 12V IGNITION (OUTPUT/INPUT)
- RED (+) 12V CONSTANT
- NO CONNECTION
- BLACK (-) GROUND

(BLACK)
 6-Pin PWR Port
 WARNING: LOW CURRENT VEHICLES ONLY

- BLACK (-) GROUND
- BLACK/WHITE (-) INSTANT TRIGGER (2ND STAGE)
- RED (+) 12V
- GRAY/WHITE (-) PRE-WARN TRIGGER (1ST STAGE)

(GREEN)
 AUX Sensor Port

4-PIN FT-DAS/SHOCK SENSOR PORT (RED)
 DAS Sensor Port

4-PIN RPS PORT (WHITE)
 AUX Sensor Port

2-PIN LED PORT (WHITE)
 LED Port

6-PIN ANTENNA PORT (BLUE)
 Antenna Port

4-PIN ANTENNA PORT (BLUE)
 Antenna Port

2-PIN THERMISTOR PORT (BLUE)
 Thermistor Port

4-PIN DATA PORT IDATALINK (RS-232) (BLACK)
 RS-232 Data Port

4-PIN DATA PORT DRONE (RS-232) (GRAY)
 Drone Data Port

2-PIN BACK-UP BATTERY PORT (BLACK)
 Back-up Battery Port

Common circuit connections available at the OBD-II connector
 OBD-II Diagnostic Port

WARNING: OBD-II circuit configuration varies by vehicle manufacturer, always test circuits before making final connections

CM7000/CM7200 Jumper

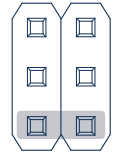
- FT-DAS Required for manual transmission.
- BOTH Red & Red/White MUST be connected with high current application.

Jumper Setting

Parking Light		(+)Door Trigger Input
Accessory		(-)Door Trigger Input (Default)
Ignition (Default)		
Trunk		Starter
Starter		Ignition
Parking Light (Default)		Accessory (Default)

CM900AS/CM900S Jumper

START
ACC
IGN1



Firstech CM900S/AS & CM7x00 controllers are equipped with configuration jumpers to provide increased module flexibility and compatibility with a wide variety of vehicles on the road.

Please consult the product documentation or downloadable Master Guides for more information regarding available configuration options and associated circuit behaviors.

10. WHITE/RED	20. WHITE/BLACK
9. WHITE	19. OPEN
8. PINK/BLACK	18. PINK
7. OPEN	17. BLACK
6. BROWN/RED	16. BROWN/YELLOW
5. ORANGE/BLACK	15. ORANGE/WHITE
4. ORANGE	14. OPEN
3. BLUE/RED	13. BLUE/YELLOW
2. GREEN/RED	12. YELLOW
1. GRAY/RED	11. GRAY/YELLOW

IDATALINK BLADE
 Connector Port

L	1990	Y	2000	A	2010	L	2020
M	1991	1	2001	B	2011	M	2021
N	1992	2	2002	C	2012	N	2022
P	1993	3	2003	D	2013	P	2023
R	1994	4	2004	E	2014	R	2024
S	1995	5	2005	F	2015	S	2025
T	1996	6	2006	G	2016	T	2026
V	1997	7	2007	H	2017	V	2027
W	1998	8	2008	J	2018	W	2028
X	1999	9	2009	K	2019	X	2029

VIN REFERENCE CHART
 1980 - 2029

J M Y M N V 8 7 W J 2 1 3 0 1 4 5

1 _ _ _ _ _ 10 _ _ _ _ _ 17

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