PURCHASED COMPONENT KEY FEATURES

WHAT'S INCLUDED:

- VOXXSEC
  - Alarm Module (4360833)
  - Shock Sensor (470033)
  - LED/Valet Button (4120474)
  - 20 Pin Input/Output Harness (4120460)
  - 6 Pin Power Harness (4120461)
  - Shock Sensor Harness (41204590)
- FLCART
  - Programmed with FM8 v2.4 Firmware

SEC-FTRK-21

2021 Ford F-150 Security System DL-FM8 v2.4 Firmware

PRINTED DOCUMENT IS UNCONTROLLED

TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED

ALL BEND ANGLES ARE 90 DEGREES

ALL DIMENSIONS ARE IN INCHES.

REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION

FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	

Material Thickness: per ASTM Std.
Weld Callouts per AWS

RELEASE & REVISIONS

INITIAL ECN: 24530

CURRENT ECN: 24530

ECN DESCRIPTION:

RELEASE SECURITY ALARM '21+ F-150

REVISED BY: MJF

PURCHASED COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
EccoMaster Fleet Solutions

REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
SEC-FTRK-21

COLOR (ONLY LIST IF COLOR SPECIFIC)

COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERANCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
YES

PART / PRODUCT IDENTIFICATION

ADRIAN STEEL®

ADRIAN STEEL COMPANY
906 JAMES STREET, ADRIAN, MI 49221

REVISION LEVEL: A

MAT'L USED:

DESIGNED BY: M.FLAGG

DESCRIPTION: ALM,KIT,SEC-FTRK-21 F-150

WEIGHT (Lbs.): 2.00

SEGMENT CODE: ALM

PART NUMBER: 63931

“Compare Installation Instructions that come with the Product to Installation Instructions in ASCO System for accuracy.”

SEC-FTRK-21

2021-2022 Ford F-150 Security System DL-FM8 Firmware

INSTALLATION MANUAL

AAMP
ADVANCING VEHICLE TECHNOLOGY
COMMERCIAL

Thank you for purchasing the SEC-FTRK-21 Security System

Table of Contents

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- FLCART
  - Programmed with DL-FM8 Firmware

TOOLS REQUIRED:


1.


2.


3.

4.


5.


6.


7.


8.


9.


10.

11.

1. Solder Iron
2. Electrical Tape
3. Solder
4. 13mm Socket
5. 5/16” Drill Bit
6. Seam Ripper
7. Diagonal Cutters
8. Wire Strippers/Crimpers
9. Plastic Trim Removal Tool
10. Ratchet
11. Drill

Optional: Tesa 51036 or 51608 Cloth Tape

STEP 1:

Remove the passenger side dash panel (A.), door sill plate and kick panel (B.) with a plastic trim removal tool. Then remove the vehicle's glove box and lower under dash felt panel.

A.

B.

STEP 2:

Using a drill and 5/16" bit, drill a hole in the lower section of the passenger A-Pillar (A.) for the LED/Valet Button. Insert the LED/Valet and route its wiring towards the vehicle's glove box opening. Then drill a hole in the end of the vehicle's dash panel (B.)

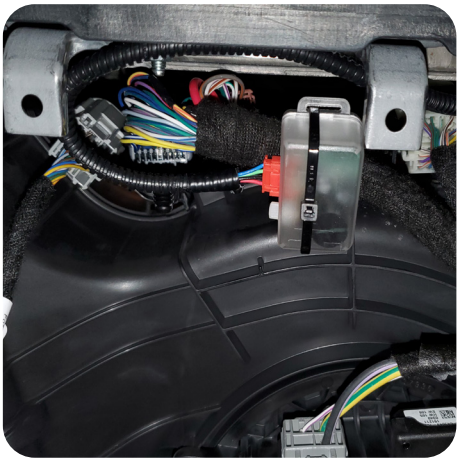
A.

B.

STEP 3:

Secure the Shock Sensor to the wire harness that is directly below the glove box opening - Image (A.) view is from floor looking up. The sensor's adjustment screw should be facing the center of the vehicle. Image (B.) is a side view of placement.

A.



B.

STEP 4:

Plug the LED/Valet and Shock Sensor connectors into the alarm module. Secure the alarm module to the end of the dash panel with two cable ties (A.) - Use the hole that was drilled in step 2.

Note: Make sure the alarm module clears the glove box opening (B.)

Route the alarm harness down towards the BCM.

A.

B.

STEP 5:

Secure the alarm harness to the OEM harness that crosses over the front of the BCM.

STEP 6:

Unplug connectors C2280A, C2280E, C2280F, and C2280G at the vehicle's BCM (A.) You may refer to the diagram on page 12 for identifying the proper connectors (shaded in grey). Remove the shroud from all connectors (B.)

A.

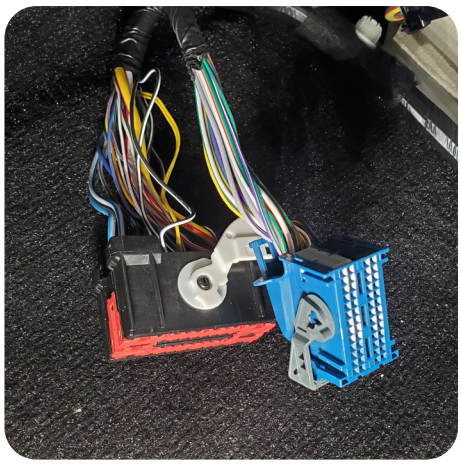
B.

STEP 7:

Use a seam ripper (A.) to remove 3” of tape from all harnesses (B.)

A.

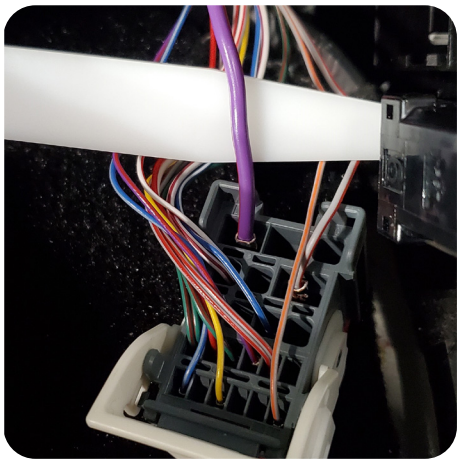
B.



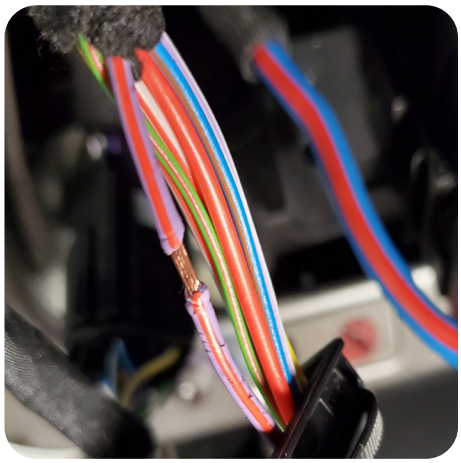
STEP 8:

Locate the OEM wires (A.) that are in the wire chart on page 11 and strip back the wire jacket with wire strippers (B.) Use the wire diagram on page 12 to mate the appropriate alarm wire to each OEM wire. Wrap the alarm wire around the OEM wire, solder the connection, and place electrical tape over it.

A.



B.



STEP 9:

- Re-tape all OEM harnesses once connections are complete.
- Reattach any connector shrouds that were removed in step 6.
- Plug all connectors back into the BCM, making sure that all connectors are fully seated and latched.

STEP 10:

Use a ratchet and 13mm socket to remove the OEM ground nut that is in front of the BCM (A.) Attach the alarm ground ring and any added switch grounds to the OEM ground point. Re-install the 13mm nut (B.)

A.

B.

STEP 11:

Use the provided Violet/Brown wire that is terminated with a red butt connector as an input from any additional alarm switches that may been added to the vehicle.

STEP 12:

Once all connections are complete, follow the module programming steps listed on page 13.

Important Note:

Before continuing to Step 13 make sure the vehicle is not in Transport Mode. Test by turning the ignition to the “On” position and checking the instrument cluster.

If the vehicle is in Transport Mode follow these steps before continuing on to Step 13.

- Turn key to the “ON/IGN” position
- Wait for the chimes to stop
- Depress the brake pedal 5 times
- Turn the 4-way flashers on 5 times
- Horn will honk when out of transport mode

STEP 13:

Once the alarm is programmed, test the alarm and adjust the shock sensor.

Test Door Triggers

1. Lock the vehicle doors with the OEM key-less transmitter
2. Wait 15 seconds
3. Reach through an open window and manually open the door
4. The alarm should sound

Test any additional switches that may have been connected to the alarm's additional trigger input (Violet/Brown)

Test Shock Sensor

1. Lock the vehicle doors with the OEM key-less transmitter
2. Wait 15 seconds
3. Hit the frame of the passenger door with the palm of your hand
4. Adjust the shock sensor sensitivity if necessary
    - Turning Clockwise = More Sensitive
    - Turning Counter Clockwise = Less Sensitive

STEP 14:

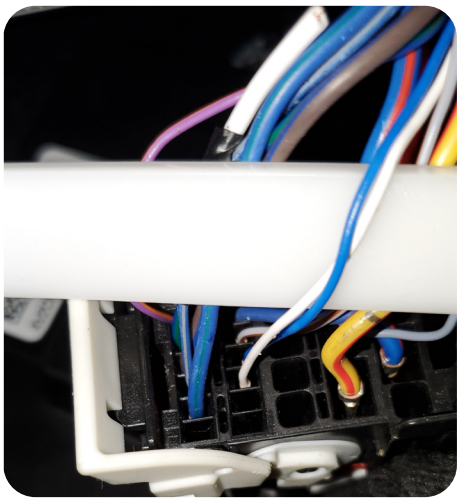
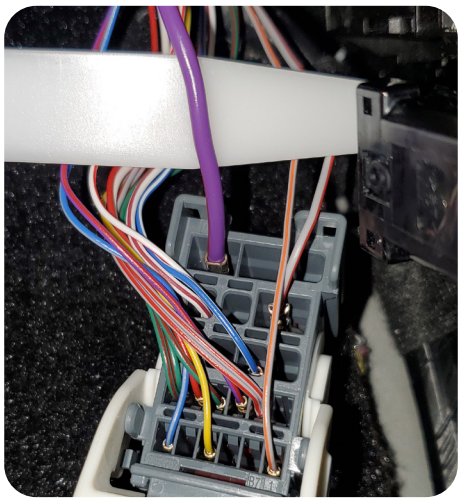
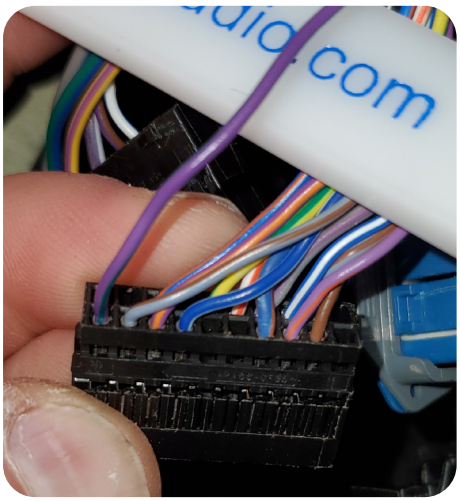
Replace all OEM panels after testing is complete

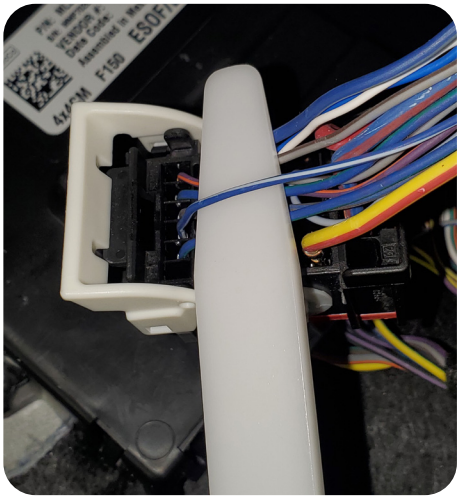
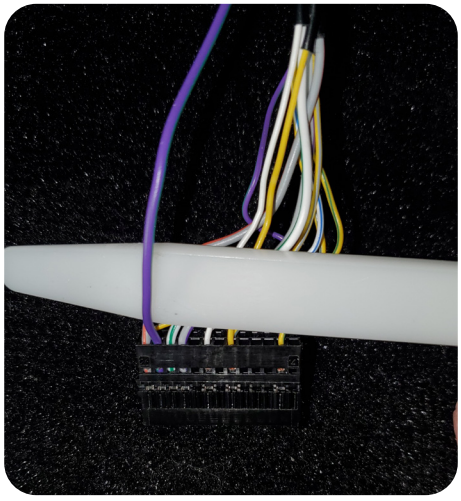
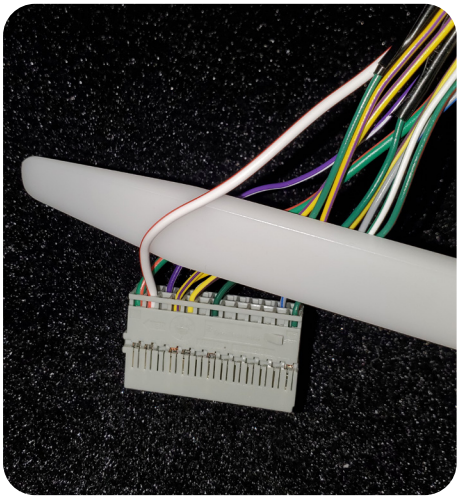
STEP 15:

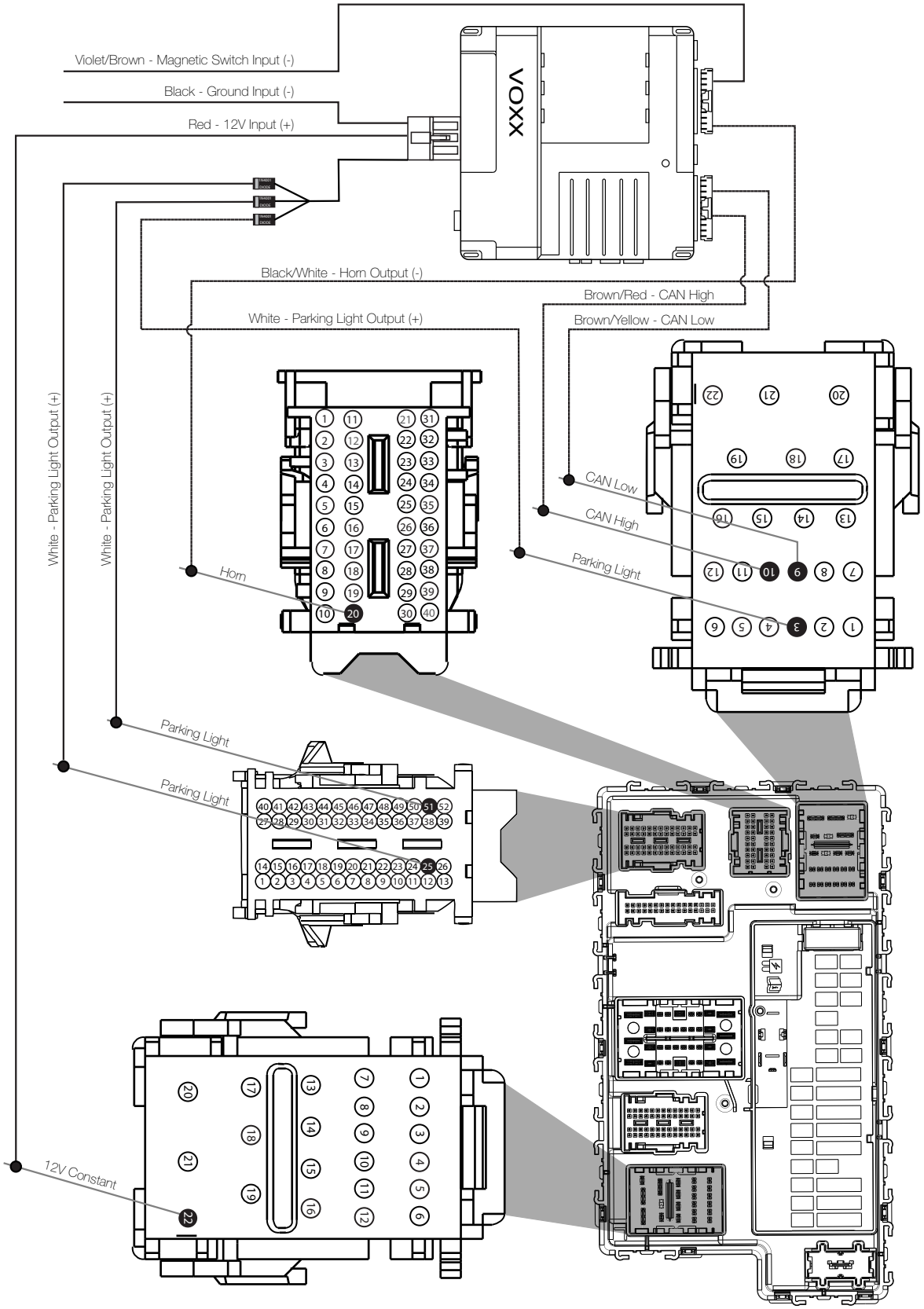
Place the alarm into valet mode

1. Turn vehicle's ignition on
2. Press and hold valet button until red LED turns on

Make	Model	Year	Wire Desription	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Connector Location
Ford	F-150	2021	CAN High	C2280G	Black	22 Pin	10	Blue	(Data)	BCM, passenger kick panel
			CAN Low	C2280G	Black	22 Pin	9	White	(Data)	BCM, passenger kick panel
			12V	C2280A	Black	22 Pin	22	Violet/Red	(+)	BCM, passenger kick panel
			Horn	C2280F	Black	40 Pin	20	Green/Violet or Violet/Blue	(-)	BCM, passenger kick panel
			Parking Light Front	C2280G	Black	22 Pin	3	Blue/White	(+)	BCM, passenger kick panel
			Parking Light Driver Rear	C2280E	Blue	52 Pin	25	Violet/Green	(+)	BCM, passenger kick panel
			Parking Light Passenger Rear	C2280E	Blue	52 Pin	51	White/Orange	(+)	BCM, passenger kick panel

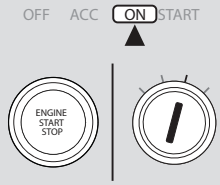




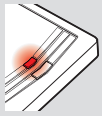

Violet/Brown - Magnetic Switch Input (-)
Black - Ground Input (-)
Red - 12V Input (+)
VOXX
Black/White - Horn Output (-)
Brown/Red - CAN High
White - Parking Light Output (+)
Brown/Yellow - CAN Low
White - Parking Light Output (+)
White - Parking Light Output (+)
CAN Low
CAN High
Parking Light
Horn
Parking Light
Parking Light
12V Constant

Module Programming

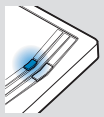
MODULE PROGRAMMING PROCEDURE

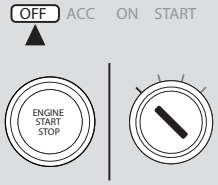
1 

Set ignition to ON position.

2 
Wait, LED 1 will turn solid RED.

3 
Wait, LED 1 will flash BLUE rapidly.

4 
Wait, LED 1 will turn solid BLUE for 2 seconds.

5 

Set ignition to OFF position.

6 Module Programming Procedure completed.

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ADVANCING VEHICLE TECHNOLOGY

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E-Mail – support@echomasterfleetsolutions.com

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