



# **SDI E-CLIK**

**SDI E-CLIK PRO  
F-53 RV SHOCK  
INSTALLATION GUIDE**

# SDi E-CLIK Ford F-53 Electronics Installation Manual

## E-CLIK Electronics Package Content

1. ECU and Hardware
2. IMU + Bracket and Hardware
3. Touch Screen Controller + Bracket and Hardware
4. Wiring Harnesses + Zip Ties
  - a. ECU Main Plug
  - b. Power Harness
  - c. Data Harness
  - d. Front Shocks Harness
  - e. Rear Shocks Harness

## Required Tools

1. Ratchet
2. 10mm Wrench
3. 10mm Socket
4. 4mm Allen Key
5. Power Drill + ¼" Drill Bit + 1 ¼" Step Drill Bit
6. Small Pliers
7. Cutting Pliers
8. Utility Knife

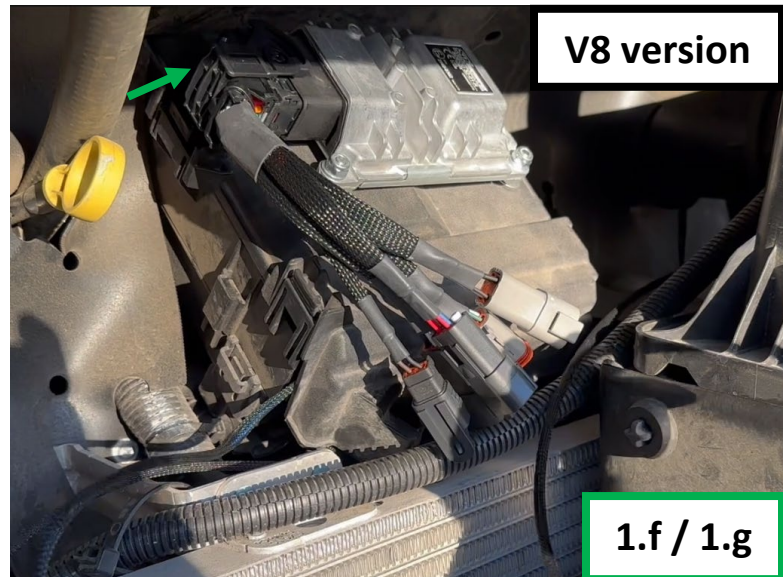
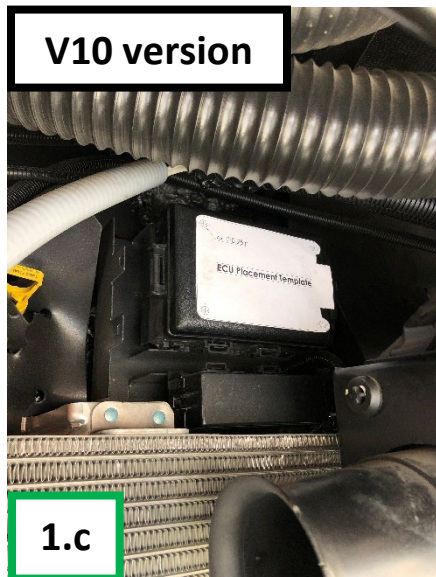
## Estimated Installation Time

1-2 hours

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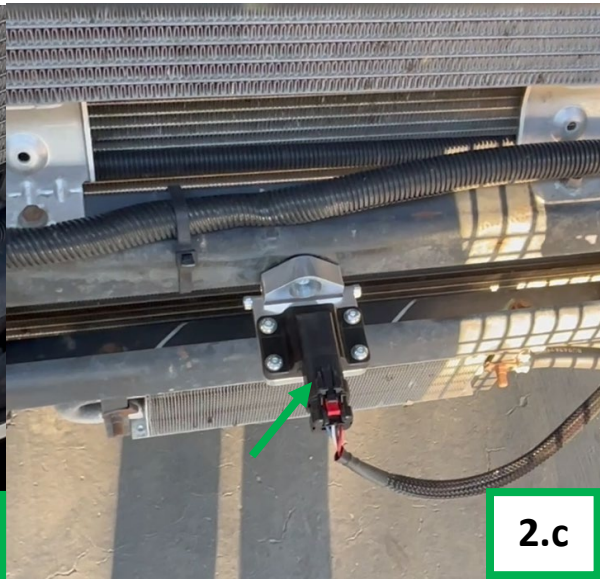
## 1. ECU

- a. Open the vehicle hood.
- b. Remove the stock fuse box cover, clean to remove dust and oil.
- c. Apply the ECU Placement pattern template.
- d. Drill the 4x designated hole on the fuse box cover with a power drill and ¼" drill bit or step bit.
- e. Mount the ECU on the fuse box cover using the supplied hardware with 4mm Allen key and 10mm socket.
- f. Reinstall the stock fuse box cover.
- g. Secure the ECU Main Plug in the ECU receptacle and lock it.



## 2. IMU Sensor

- a. Open the vehicle hood.
- b. Locate the hole at the center of the crossbar.
- c. Place IMU as shown, IMU connector must face forward.
- d. Use the 10mm socket and wrench to install and secure the IMU bracket in place using the supplied hardware.



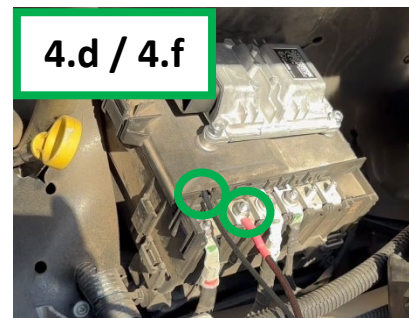
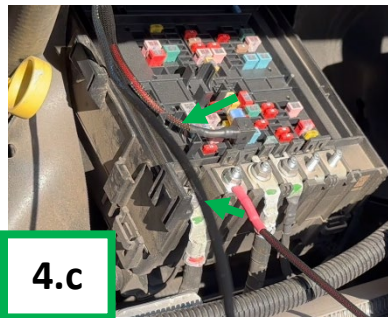
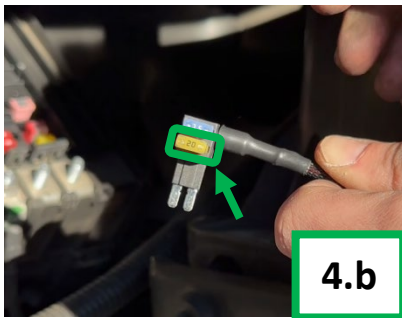
## 3. Touch Screen

- a. Select a mounting location for your E-CLIK Touch Screen.
- b. Apply the Touch Screen Placement Template on the selected location.
- c. Drill the 5x designated holes with a power drill, 1/4" drill bit and step bit.
- d. Mount the Touch Screen using the supplied hardware with 4mm Allen key and 10mm socket.
- e. Make sure the Touch Screen Home Button is oriented down.



## 4. Power Harness

- a. Under the hood, remove the Fuse box cover.
- b. Cut notch using a utility knife.
  - For 2019 - 6.8L V10:
    - Remove the stock 10A fuse from the fuse slot #5 using small pliers.
    - Plug the previously removed stock fuse in the bottom slot of the E-CLIK fuse holder.
  - For 2023 - 7.3L V8:
    - Remove the stock 20A fuse from fuse slot #32 using small pliers.
    - Plug the previously removed stock fuse in the bottom slot of the E-CLIK fuse holder.
- c. Plug the E-CLIK fuse tap in the fuse slot #32 or #5.
- d. Route the fuse tap harness out of the fuse box through the notch cut previously.
- e. Mount the GND wire (Black) to the GND battery connector using a 10mm socket.
- f. Mount the +12V wire (Red) to the +12V battery connector using a 10mm socket.
- g. Reinstall the fuse box cover with the E-CLIK ECU on it.
- h. Route the Male Black/Orange 4-pin Power connector towards the ECU, and connect it to the mating Female 4-pin Black/Green connector of the ECU Main Harness.
- i.



## 5. Data Harness

- a. Under the hood, locate the stock firewall grommet located under the Brake Master Cylinder.
- b. Remove the stock firewall grommet.
- c. Drill a 1 ¼" hole using a drill and step bit.
- d. From the inside out, feed the Black/Orange 6-pin Data connector and the Black/Red IMU 6-pin connector through the hole previously drilled.
- e. Route the Male Black/Orange 6-pin Data connector towards the ECU, and connect it to the mating Female Black/Orange 6-pin connector of the ECU Main Harness.



### **IMU SENSOR:**

- f. Route the Black/Red connector from the ECU, following stock wiring harnesses until the IMU sensor.
- g. Connect the Black/Red connector to the IMU sensor.
- h. Secure the connection by pushing the red lock tab.

### **TOUCH SCREEN:**

- i. From inside the cab, under the dashboard, route the Touch Screen connector (Black/Silver) from under the dashboard to the Touch Screen.
- j. Connect (Screw) the Touch Screen connector to the Touch Screen.

### **VEHICLE DATA:**

- k. From inside the cab, under the dashboard, Connect the OBD2 connector (Black) to the stock OBD2 connector.

## 6. Front Shocks Harness

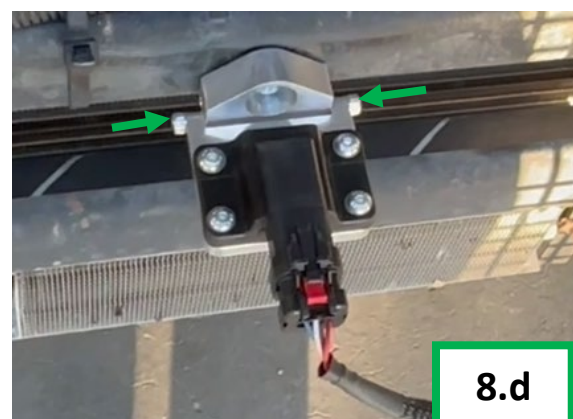
- a. Connect the Male 4-pin Grey/Orange connector to the mating Female 4-pin Grey/Green of the ECU Main Harness.
- b. Route the Front Left Shock harness under the driver's side wheel liner until the Front Left Shock connector.
- c. Plug the E-CLIK Front Left Shock connector (FL) to the Front Left Shock.
- d. Route the Front Right Shock harness under the passenger's side wheel liner until the Front Right Shock connector.
- e. Plug the E-CLIK Front Right Shock connector (FR) to the Front Right Shock.

## 7. Rear Shocks Harness

- a. Connect the Female 4-pin Grey/Green connector to the mating Male 4-pin Grey/Orange of the ECU Main Harness.
- b. Route Rear Right and Rear Left Shock harnesses under the driver's side wheel liner.
- c. Route Rear Right and Rear Left Shock harnesses along the vehicle frame until the driver's side shock connector.
- d. Plug the E-CLIK Rear Left Shock connector (RL) to the Rear Left Shock.
- e. Route the Rear Right Shock harness along the vehicle frame from the driver's side to the passenger's side shock connector.
- f. Plug the E-CLIK Rear Right Shock connector (RR) to the Rear Right Shock.




## 8. Final Set Up

- a. Place the vehicle on a leveled surface, and turn on the vehicle Ignition.
- b. Go to the tilt angles display screen of the E-CLIK system.
- c. Adjust the IMU sensor orientation using a 4mm Allen key until pitch and roll angles display 0 degrees.
- d. Secure the IMU orientation using a 4mm Allen key.
- e. Secure and zip-tie every harness, then close the vehicle hood.





## Wiring Harness Color Chart

Start	Wire Color	Function	End	Wire Color	Destination
4-Pin Male		Power	Ring Terminal		Battery +
			Ring Terminal		Battery -
			Fuse Tap		Ignition
4-Pin Male		Front Shocks	2-Pin Male		Front Left Shock
			2-Pin Male		Front Right Shock
4-Pin Female		Rear Shocks	2-Pin Male		Rear Left Shock
			2-Pin Male		Rear Right Shock
6-Pin Male		Data	6-Pin Male		IMU Sensor
			5-Pin Male		Touch Screen
			16-Pin OBD-II		OBD-II Diagnostic Port
2-Pin Male		NOT USED	2-Pin Male		-
2-Pin Female		NOT USED	2-Pin Male		-
2-Pin Female		NOT USED	Push Button		-



## ERROR CODE CHART

Error Code	Source	Error Description	Action
1014	ECU	Battery Low	1. Check vehicle's battery
1015	ECU	Battery High	1. Check vehicle's battery
1016	ECU	Temperature Low	-
1017	ECU	Temperature High	-
5000	IMU	Disconnected / Malfunction	1. Check connection between ECU and IMU 2. Replace IMU Harness
9000	Front Left Shock	Open Circuit	1. Check connection between ECU and Front Left Shock, 2. Replace Front Shocks Harness
9001	Front Left Shock	Short Circuit to Power	1. Check connection between ECU and Front Left Shock, 2. Replace Front Shocks Harness
9002	Front Left Shock	Short Circuit to Ground	1. Check connection between ECU and Front Left Shock, 2. Replace Front Shocks Harness
9003	Front Left Shock	Deviation of Current	1. Check connection between ECU and Front Left Shock, 2. Replace Front Left Shock Solenoid Coil
9004	Front Right Shock	Open Circuit	1. Check connection between ECU and Front Right Shock, 2. Replace Front Shocks Harness
9005	Front Right Shock	Short Circuit to Power	1. Check connection between ECU and Front Right Shock, 2. Replace Front Shocks Harness
9006	Front Right Shock	Short Circuit to Ground	1. Check connection between ECU and Front Right Shock, 2. Replace Front Shocks Harness
9007	Front Right Shock	Deviation of Current	1. Check connection between ECU and Front Right Shock, 2. Replace Front Right Shock Solenoid Coil
9024	Rear Left Shock	Open Circuit	1. Check connection between ECU and Rear Left Shock, 2. Replace Rear Shocks Harness
9025	Rear Left Shock	Short Circuit to Power	1. Check connection between ECU and Rear Left Shock, 2. Replace Rear Shocks Harness
9026	Rear Left Shock	Short Circuit to Ground	1. Check connection between ECU and Rear Left Shock, 2. Replace Rear Shocks Harness
9027	Rear Left Shock	Deviation of Current	1. Check connection between ECU and Rear Left Shock, 2. Replace Rear Left Shock Solenoid Coil
9028	Rear Right Shock	Open Circuit	1. Check connection between ECU and Rear Right Shock, 2. Replace Rear Shocks Harness
9029	Rear Right Shock	Short Circuit to Power	1. Check connection between ECU and Rear Right Shock, 2. Replace Rear Shocks Harness
9030	Rear Right Shock	Short Circuit to Ground	1. Check connection between ECU and Rear Right Shock, 2. Replace Rear Shocks Harness
9031	Rear Right Shock	Deviation of Current	1. Check connection between ECU and Rear Right Shock, 2. Replace Rear Right Shock Solenoid Coil