



SDI E-CLIK PRO
Raptor Installation
Guide

SDi E-CLIK Ford Raptor Electronics Installation Manual

E-CLIK Electronics Package Content

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

Required Tools

1. Ratchet
2. 10mm Socket
3. 12mm Socket
4. 4mm Allen Key
5. 10mm Wrench
6. Small Flathead Screwdriver
7. Power Drill + ¼" Drill Bit or Step Bit
8. Small Pliers
9. Cutting Pliers
10. Utility Knife

Estimated Installation Time

1-2 hours

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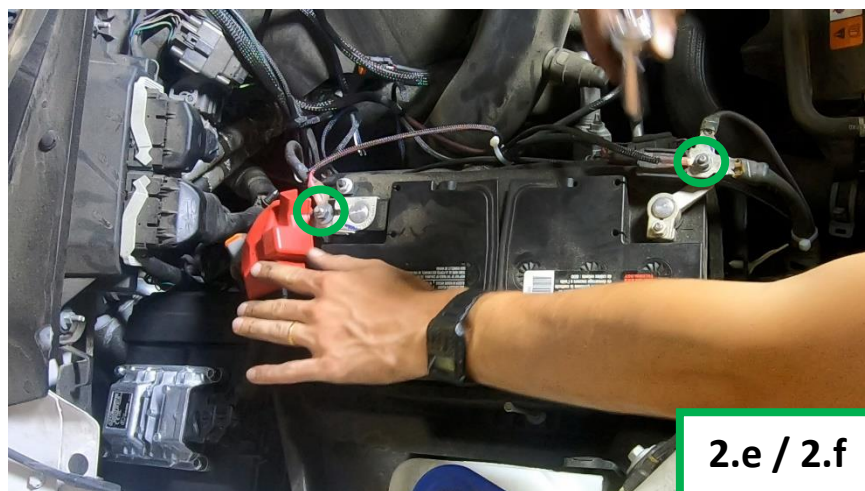
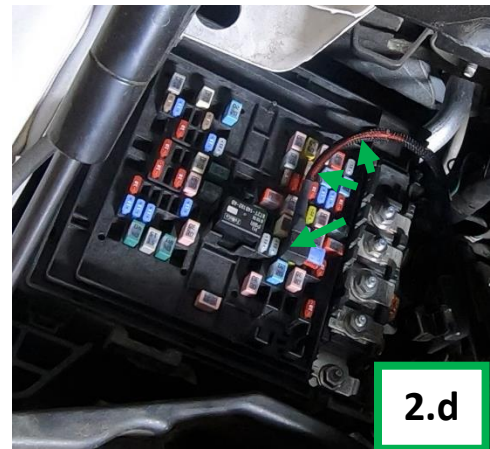
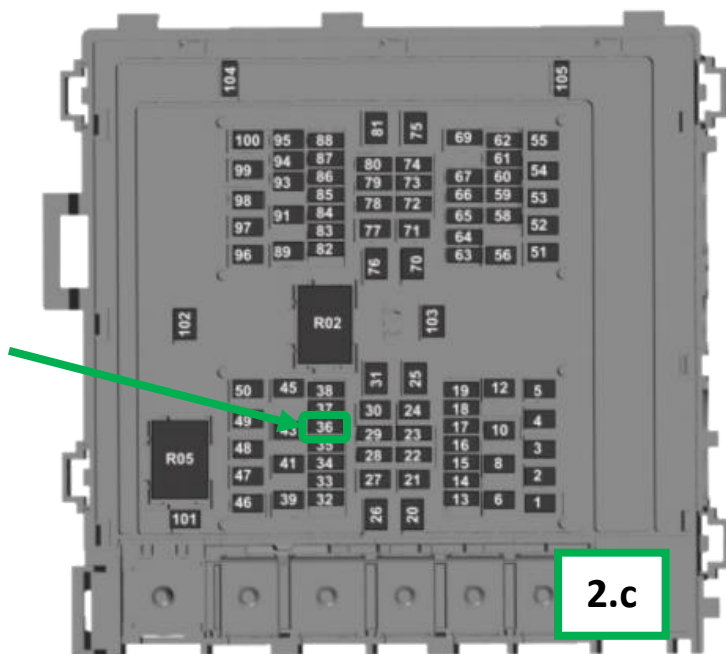
1. ECU

- a. Open the vehicle hood.
- b. Remove the engine fuse box cover.
- c. Apply the ECU Placement template on the fuse box.
- d. Drill the 4x designated holes using a power drill and a ¼ drill bit or step bit.
- e. Cut notch using a utility knife.
- f. Mount the ECU with the supplied hardware using a 4mm Allen key and a 10mm wrench.
- g. Plug the ECU harness into the ECU.



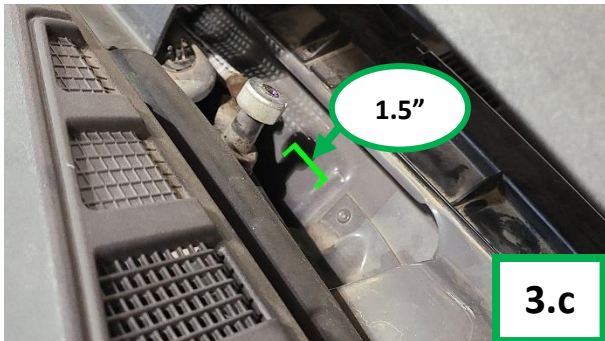
2. Power Harness

- Remove the stock 10A fuse from the fuse slot #36 using a small pliers.
- Plug the stock 10A fuse in the bottom slot of the E-CLIK fuse holder.
- Plug the E-CLIK fuse tap in the fuse slot #36 (10A).
- Route the fuse tap harness out of the fuse box through the notch cut previously.
- Mount the GND wire (Black) to the GND battery connector using a 10mm socket.
- Mount the +12V wire (Red) to the +12V battery connector using a 12mm socket.
- Reinstall the fuse box cover with the E-CLIK ECU on it.
- DO NOT Connect the Black/Orange 4-pin Power harness connector to the E-CLIK ECU harness yet.



3. IMU Sensor

- a. Unhook and remove the passenger side windshield wiper.
- b. Open the hood and unclip the 2x plastic trims between the windshield and the engine bay using a small flathead screwdriver.
- c. Locate the center of the firewall, 1.5" away from the seam of the firewall **shown here**.
- d. Drill a hole using a power drill and a 1/4" drill bit.
- e. Install the IMU sensor using the supplied hardware, a 4mm Allen key and a 10mm wrench.
- f. DO NOT reinstall the plastic trims as you will need to adjust the sensor orientation in the final steps.



4. Touch Screen

- a. Unclip and unbolt the driver side bottom handle cover using a 10mm socket.
- b. Place the Touch Screen bracket and secure it with the supplied bolt using a 10mm socket.



5. Data Harness

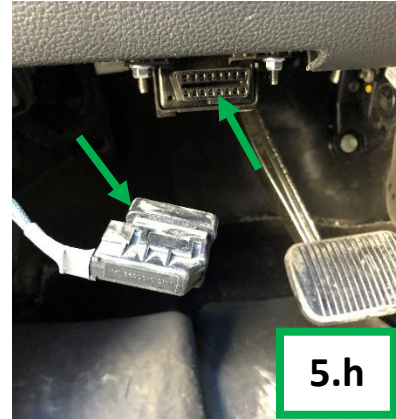
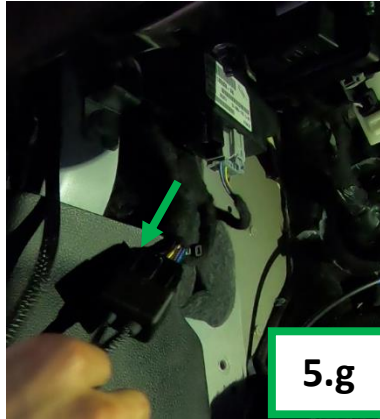
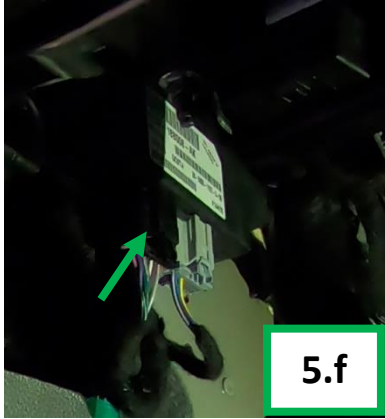
TOUCH SCREEN:

- a. Unclip the side panel between the driver side door and the dashboard using a flathead screwdriver.
- b. Pull the driver side door seal
- c. Route the Touch Screen connector (Black/Silver) from under the dashboard to the Touch Screen.
- d. Connect (Screw) the Touch Screen connector to the Touch Screen.
- e. Reinstall the driver side door seal and side panel.



VEHICLE DATA:

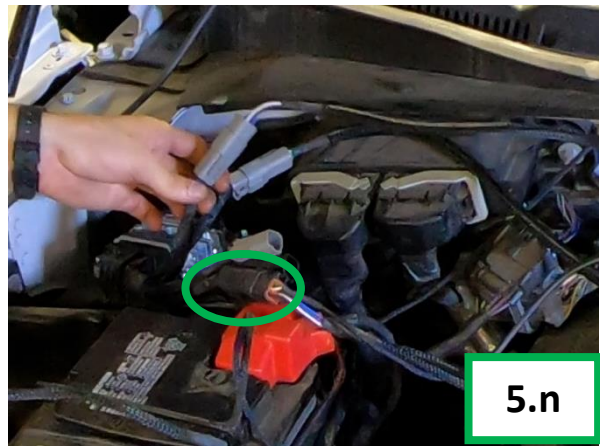
- f. Disconnect the stock chassis ECU Black connector from under the dashboard.
 - g. Connect the Data connector (Black/Dark Grey) to the stock Black connector.
- OR for 2017-2018 Ford Raptor**
- h. Under the dashboard, Connect the OBD2 connector (Black) to the stock OBD2 connector.



ROUTING:

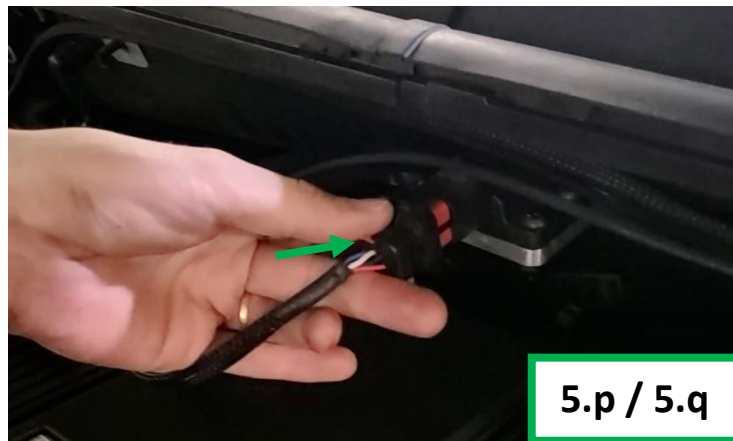
- i. Cut the stock firewall grommet from the engine bay side using a utility knife.
- j. Cut the stock firewall grommet from the dashboard side using a utility knife.
- k. Route the Black/Orange 6-pin Data harness connector through the firewall grommet.
- l. Route the Black/Red 6-pin IMU connector through the firewall grommet.
- m. Route the Black/Orange 6-pin connector along the firewall until the E-CLIK ECU.
- n. Connect the Black/Orange 6-pin connector to the E-CLIK ECU harness.





IMU SENSOR:

- o. Route the Black/Red 6-pin IMU connector along the firewall until the IMU sensor.
- p. Connect the Black/Red 6-pin IMU connector to the IMU sensor.
- q. Secure the connection by pushing the red lock tab.



6. Front Shocks Harness

- a. Route the Grey/Orange 4-pin connector through the previously cut firewall grommet.
- b. Route the Grey/Orange 4-pin connector along the firewall until the E-CLIK ECU.
- c. Connect the Grey/Orange 4-pin connector to the E-CLIK ECU harness.

OR for 2017-2018 Ford Raptor

- d. Connect the Grey/Orange 4-pin connector to the E-CLIK ECU harness.*
- e. Route the Front Right Shock harness under the passenger side wheel liner until the stock shock connector.*
- f. Plug the E-CLIK Front Right Shock connector to the Front Right Shock Coil supplied.*
- g. Route the Front Left Shock harness along the firewall and above the driver side wheel liner until the stock shock connector.*
- h. Plug the E-CLIK Front Left Shock connector to the Front Left Shock Coil supplied.*

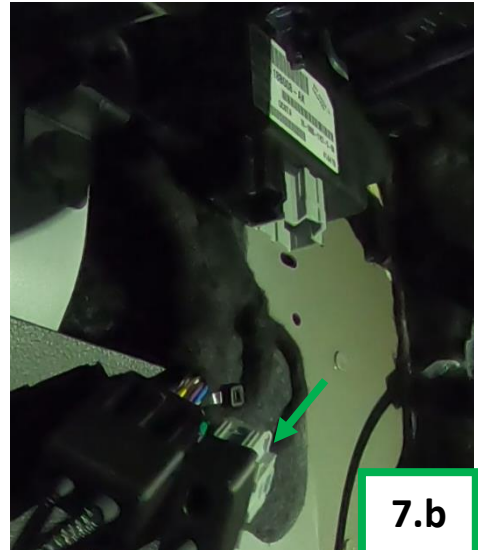


7. Rear Shocks Harness

- a. Disconnect the stock chassis ECU Grey connector from under dashboard.
- b. Connect the Rear Shocks connector (Grey/Dark Grey) to the stock Grey connector.
- c. Route the Grey/Green connector through the previously cut firewall grommet.
- d. Route the Grey/Green connector along the firewall until the E-CLIK ECU.
- e. Connect Grey/Green connector to the E-CLIK ECU harness.

OR for 2017-2018 Ford Raptor

- f. *Connect Grey/Green 4-pin connector to the E-CLIK ECU harness.*
- g. *Route Rear Right and Rear Left Shocks harness under the passenger side wheel liner.*
- h. *Route Rear Right and Rear Left Shocks harness along the vehicle frame until the passenger side stock shock connector.*
- i. *Plug E-CLIK Rear Right Shock connector to the Rear Right Shock Coil supplied.*
- j. *Route the Rear Left Shock harness above the heat shield and along the vehicle frame from the passenger side to the driver side stock shock connector.*
- k. *Plug E-CLIK Rear Left Shock connector to the Rear Left Shock Coil supplied.*



8. Final Set Up

- a. NOW Connect the Black/Orange 4-pin Power harness connector to the E-CLIK ECU harness.
- b. Place the vehicle on a leveled surface, and turn on the vehicle Ignition.
- c. Go to the tilt angles display screen of the E-CLIK system.
- d. Adjust the IMU sensor orientation using a 4mm Allen key until pitch and roll angles display 0 degrees.
- e. Secure the IMU orientation using a 4mm Allen key.
- f. Reinstall 2x plastic trims between the windshield and the engine bay.
- g. Reinstall the passenger side windshield wiper.
- h. Secure and zip-tie every harness, then close the vehicle hood.

