



# **SDI E-CLIK**



***SDI E-CLIK Electronics  
Installation Manual  
Toyota Tacoma &  
Toyota 4Runner***

# SDi E-CLIK Electronics Toyota Tacoma/4Runner Installation Manual

## E-CLIK Electronics package content

1. ECU and hardware
2. ECU Placement Template
3. IMU + Bracket and hardware
4. Wiring harnesses + Zip Ties
  - a. ECU Main Plug
  - b. Power Harness
  - c. Front Shocks Harness
  - d. Rear Shocks Harness
  - e. Data Harness with Touch Screen Controller + Mount

## Required tools

1. Ratchet
2. 10mm Socket
3. 13mm Socket and Wrench
4. 4mm Allen key
5. Plastic clip removal tool
6. Power drill + ¼" drill bit and step bit
7. Cutting pliers
8. Utility Knife

## Estimated Installation Time

2 hours

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## 1. Install ECU

- a. Open the vehicle hood.
- b. Remove stock fuse box cover, clean to remove dust and oil.
- c. Apply the ECU Placement Template.
- d. Drill the 4x designated hole on the fuse box cover with a power drill and ¼" drill bit or step bit.
- e. Cut a notch on the edge of the fuse box cover using a utility knife.
- f. Mount the ECU on the fuse box cover using the supplied hardware with 4mm Allen key and 10mm socket.
- g. Be sure the ECU receptacle is toward the driver's side of the vehicle.
- h. Secure the ECU Main Plug in the ECU receptacle and lock it.
- i. Reinstall stock fuse box cover.

## 2. Install IMU

### 4RUNNER:

- a. Unclip covers, unbolt, and unhook the 2x windshield wipers with 13mm socket.
- b. Open the hood and unclip the plastic trim between the windshield and the engine bay.
- c. Remove engine cover.
- d. Locate the center of the firewall, pull stock harness down, and mark a point 1.25" below the firewall top bend.
- e. Drill a hole using a power drill and a ¼" drill bit.
- f. Install the IMU sensor bracket using the supplied spacer between the firewall and the IMU bracket, and secure it with the supplied bolt and nut with 4mm Allen key and 10mm wrench.
- g. Reinstall the engine cover, the plastic trim, and the 2x windshield wipers with 13mm socket.

### TACOMA:

- a. Open the hood and locate the center ground stud on the firewall.
- b. Install the IMU sensor bracket on the center ground stud, using the supplied spacer between the firewall and the IMU bracket, and secure it with the supplied nut with 10mm socket.

### 3. Install Touch Screen for TACOMA

- a. Remove the Front Left Door inside mirror trim.
- b. Remove the 3x white plastic clips from the door using a clip removal tool.
- c. Locate the top mirror stud nut and remove it using a 10mm socket.
- d. Install and secure the supplied M6 washer and coupling nut in place of the previously removed nut.
- e. Reinstall the Front Left Door inside mirror trim and press the trim in the coupling nut area to mark the inside location of the coupling nut.
- f. Remove the Front Left Door inside mirror trim again.
- g. From the inside of the Front Left Door inside mirror trim, drill a pilot hole at the center location of the coupling nut mark.
- h. From the outside of the Front Left Door inside mirror trim, drill a 3/4" hole at the location of the pilot hole, and use a utility knife to trim and clean plastic burrs.
- i. Reinstall the 3x white plastic clips on the Front Left Door inside mirror trim.
- j. Reinstall the Front Left Door inside mirror trim.
- k. Place E-CLIK Touch Screen mount on the coupling nut.
- l. Secure the E-CLIK Touch Screen mount with the supplied flanged bolt using a 10mm socket.

### 4. Install Touch Screen for 4RUNNER

- a. Remove the Front Left Door inside mirror trim.
- b. Locate the top mirror stud nut and remove it using a 10mm socket.
- c. Place E-CLIK Touch Screen mount on the top mirror stud.
- d. Secure the E-CLIK Touch Screen mount with the previously removed nut using a 10mm socket.
- e. Place the Front Left Door inside mirror trim back in place, and mark and trim the area to clear the ECLIK Touch Screen Mount using a utility knife.
- f. Reinstall the Front Left Door inside mirror trim.

### 5. Install Power Harness

*Make sure vehicle ignition is off.*

*Note: We will secure all harnesses at the end once we make sure they are placed properly and functioning correctly.*

- a. Refer to wiring diagram for callouts of wire function and color (page 7)
- b. Open the vehicle hood.
- c. Remove Fuse box cover.
- d. **4RUNNER:** Locate Fuse 38 EFI NO.2, 7.5A.  
**TACOMA:** Locate Fuse EFI NO.3, 10A.
- e. Remove the stock Fuse and place it in the bottom slot of the provided fuse tap.
- f. **4RUNNER:** Insert the provided fuse tap into the 38 EFI NO.2 slot of the fuse box.  
**TACOMA:** Insert the provided fuse tap into the EFI NO.3 slot of the fuse box.
- g. Run the blue ignition wire out of the fuse box through the notch previously cut, and toward the ECU plug.

- h. Connect the black wire ring connector of the power harness to the black (-) pin of the vehicle battery with 10mm socket.
- i. Connect the red wire ring connector of the power harness to the red (+) pin of the vehicle battery with 10mm socket.
- j. DO NOT CONNECT THE 4-PIN CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG UNTIL FINAL STEP.

## 6. Install Front Shock Harness

*Make sure vehicle ignition is off.*

*Note: We will secure all harnesses at the end once we make sure they are placed properly and functioning correctly.*

- a. Refer to wiring diagram for callouts of wire function and color (page 7).
- b. Open the vehicle hood.
- c. Connect the 4-pin connector of the front shock harness to the ECU Main Plug.
- d. Run the Front Right (passenger's side) Shock harness along the firewall, down the inner fender between the body and the inner fender.
- e. Connect the 2-pin connector of the passenger side shock harness to the front right shock coil.
- f. Run the Front Left (driver's side) Shock harness down between the battery and the front fender.
- g. Connect the 2-pin connector of the driver side shock harness to the front left shock coil.

## 7. Install Rear Shocks Harness

*Make sure vehicle ignition is off.*

*Note: We will secure all harnesses at the end once we make sure they are placed properly and functioning correctly.*

- a. Refer to wiring diagram for callouts of wire function and color (page 7).
- b. Open the vehicle hood.
- c. Connect the 4-pin connector of the rear shock harness to the ECU Main Plug.
- d. Run the rear shock harnesses down between the battery and front fender. Route down to the top of the vehicle's frame then along the top of the frame with the brake line and stock wiring harness. All the way to the rear right shock.
- e. Connect the 2-pin connector of the rear left shock harness to the rear left shock coil.
- f. Run the rear right shock harness across the vehicle following the crossbar and stock wiring harness. Be sure to route it above the heat shield.
- g. Connect the 2-pin connector of the rear right shock harness to the rear right shock coil.

## 8. Install Data Harness

*Make sure vehicle ignition is off.*

*Note: We will secure all harnesses at the end once we make sure they are placed properly and functioning correctly.*

- a. Open the vehicle hood.
- b. From under the hood, cut a cross shape passenger side of the firewall grommet with utility knife.
- c. From inside the vehicle:
  - o Feed the Data Harness Black/Orange 6-pin connector through the firewall leave the harness loose.
  - o Feed the IMU Red/Black 6-pin connector through the firewall, a second set of hands is a great help.
  - o Feed the Touch Screen Harness Grey/Orange 4-pin DTM connector through the firewall.
  - o Plug the OBD-II harness connector into the vehicle's OBD-II diagnostic port.
- d. From the under the hood:
  - o Connect the Data Harness Black/Orange 6-pin connector to the ECU Main Plug.
  - o Connect the Red/Black IMU harness connector to the IMU sensor previously installed on the top center of the firewall, and lock the red lock tab.
  - o Open the front left door and feed a guide wire inside the front left fender toward the engine bay.
  - o Attach the Touch Screen Harness Grey/Orange 4-pin DTM connector to the guide wire
  - o Pull the other side of the guide wire to feed the Touch Screen Harness Grey/Orange 4-pin DTM connector inside the front left fender toward the front left door.
  - o Route the Touch Screen Harness M12 circular 5-pin connector inside the front left fender toward the front left door.
  - o Run the Touch Screen Harness under the door panel, toward the E-CLIK Touch Screen previously installed.
  - o Connect the Touch Screen Harness M12 circular 5-pin connector to the E-CLIK Touch Screen previously installed.
  - o Connect the Touch Screen Harness Grey/Orange 4-pin DTM Male and Female connectors
  - o Reinstall the door panel.

## 9. Final Set Up

*Make sure vehicle ignition is off.*

- a. Open the vehicle hood.
- b. NOW CONNECT THE BLACK/ORANGE 4-PIN CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG.
- c. Make sure all connectors are securely plugged in.
- d. Turn on the ignition.
- e. Confirm the E-CLIK touch screen controller is powered on.
  - Acknowledge the “Do Not Use While Driving” message by pressing “OK” on the screen.
  - Confirm there are no error messages.
    - If there is an error refer to the Error code chart below.
  - Confirm the main menu appears on the screen.
- f. Secure all wiring harnesses with supplied zip-ties.
  - Ensure they are not running close to the vehicle’s exhaust or any potential sources of pinching, chafing or other damage.
  - For the rear shock harness use stock wire harness retainer locations along the frame.
  - For the rear right shock harness follow the crossbar routing and secure at the stock locations.
  - Along the firewall, use stock wire harness retainer locations.
- g. Calibrate/Zero the IMU sensor:
  - Place on a level surface, side to side and front to back.
  - Turn on the ignition.
  - Rotate the selector ring on the touch screen display to the Output menu.
  - Press screen to select it.
  - Swipe screen left twice to reach the tilt angle display menu.
  - Look at the read out and confirm it is 0-degree pitch and roll.
  - If it is not reading 0-degree pitch and roll, Zero the IMU:
    - Open the hood.
    - Loosen the IMU adjuster bracket with the 4mm Allen Key,
    - Move the bracket until 0-degree pitch angle is indicated on the screen.
- h. Tighten the 2 bolts on the IMU adjuster bracket with a 4mm Allen key.
- i. Close the vehicle hood.

Refer to “E-CLIK PRO User Guide” for more information.



## 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 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