



SDi E-CLIK

***SDi E-CLIK Electronics
Installation Manual***

Jeep

Wrangler/Rubicon JL 2/4 Door

SDi E-CLIK Electronics Jeep Wrangler/Rubicon JL 2/4 doors Installation Manual

E-CLIK system types

1. E-CLIK (Switch controlled)
2. E-CLIK ACTIVE (Touch Screen + Silver Selecting Ring Controller)
3. E-CLIK PRO (Touch Screen + Black Selecting Ring Controller)

E-CLIK Electronics package content

1. ECU + Bracket and hardware
2. ECU Placement Template
3. (ONLY E-CLIK ACTIVE and E-CLIK PRO) 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. (ONLY E-CLIK ACTIVE and E-CLIK PRO) Data Harness with Touch Screen Controller + Case
 - f. (ONLY E-CLIK) Switch Harness with Switches + Case

Required tools

1. Ratchet
2. 10mm Socket
3. T25 Torx key
4. 4mm Allen key
5. Small flathead screwdriver
6. Power drill + ¼" drill bit or step bit
7. Cutting pliers
8. Utility Knife

Estimated Installation Time

1 to 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. Mount the ECU on the fuse box cover using the supplied hardware with 4mm Allen key and 10mm socket.
- f. Be sure the ECU receptacle is toward the right side of the vehicle.
- g. Replace stock fuse box cover.
- h. Secure the ECU Main Plug in the ECU receptacle and lock it.

2. (ONLY E-CLIK Active and E-CLIK PRO) Install IMU

- a. Open the vehicle hood.
- b. Unbolt the center bolt on top of the firewall with 10mm socket.
- c. Place IMU on the center top of the firewall with the bracket step toward you.
- d. Use the 10mm socket and stock bolt to secure the IMU in place.

3. 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. Locate Fuse F52 (20 AMP Cigar Lighter).
- e. Remove the stock 20 AMP Fuse if equipped.
- f. If equipped, place the 20 AMP Fuse in the bottom slot of the provided fuse tap.
- g. Insert the provided fuse tap into the F52 slot of the fuse box.
- h. Insert the blue ignition wire into the clip on the rear left corner of the fuse box.
- i. Run the blue ignition wire out of the fuse box toward the ECU plug.
- j. Connect the red wire ring connector of the power harness to the red (+) pin of the vehicle battery with 10mm socket.
- k. Connect the black wire ring connector of the power harness to the black (-) pin of the vehicle battery with 10mm socket.
- l. DO NOT CONNECT THE 4-PIN CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG UNTIL FINAL STEP.

4. 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 Left (driver'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 driver side shock harness to the front left shock coil.

- f. Run the Front Right (passenger's side) Shock harness down between the battery and the front fender.
- g. Connect the 2-pin connector of the passenger side shock harness to the front right shock coil.

5. 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, the gap is small, but the connectors will fit. 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 right shock harness to the rear right shock coil.

- f. Run the rear left shock harness across the vehicle following the differential breather hose and stock wiring harness. Be sure to route it above the heat shield.
- g. Connect the 2-pin connector of the rear left shock harness to the rear left shock coil.

6. (ONLY E-CLIK Active and E-CLIK PRO) Install Data Harness and E-CLIK Touch Screen Controller

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, remove the firewall plug.
- c. Inside the vehicle, remove transfer case shift boot with small flathead screwdriver.
- d. Remove transfer case gear knob retainer screw with T25 Torx key.
- e. Remove stock transfer case gear knob from gear knob and shift boot.
- f. Separate the off-white gear knob retainer from the gear knob and shift boot. Retain the off-white gear knob retainer and shift boot for reinstallation later.
- g. Turn the shift boot inside-out.
- h. Run the OBD-II connector, IMU connector and Data harness connector through the shift boot.
 - Separate the OBD-II cover from the OBD-II connector.
 - Feed the OBD-II connector through the shift boot, reinstall the OBD-II cover to the connector.
 - Feed the Red IMU connector through the shift boot.
 - Feed the Orange Data Harness connector through the shift boot.
- i. Pry the center console filler out with a small flat screwdriver to access the retainer bolt.
- j. Remove the center console retainer bolt with a 10mm socket.
- k. Pull the carpet off the retainer and away from the center console.
- l. Run the OBD-II connector, IMU connector and Data harness connector through the shift lever opening in the center console, above the retaining bolt flange, then under the dashboard on the driver's side toward the firewall opening.
- m. Reassemble the transfer case shift knob assembly.
 - Turn the shift boot right side out.
 - Place the stock off-white knob retainer into the shift boot, be sure to run the Data connector wire harness to the front of the shift boot.
 - Slide the E-CLIK touch screen controller into the knob retainer.
 - Install the shift knob retaining bolt with the T25 Torx key. Only install far enough to retain the knob on the retainer.
 - Slide the shift boot/E-CLIK touch screen controller/knob retainer assembly onto the shift lever.
 - Tighten the retainer bolt so it engages the hole in the shift lever, with a T25 Torx Key.
 - Replace the shift boot, you will hear it click into place.
- n. Plug the OBD-II harness connector into the vehicle's OBD-II diagnostic port.

- o. Feed the Red IMU connector through the firewall, a second set of hands is a great help.
- p. Feed the Orange Data Harness connector through the firewall leave the harness loose.
 - o Do not install the firewall plug at this time.
- q. Run the data harness along the firewall to the ECU.
- r. Connect the Orange Data Harness connector the connector on the ECU Main Plug.
- s. Connect the Red IMU harness connector to the IMU sensor previously installed on the top center of the firewall, and lock the red lock tab.

7. (ONLY E-CLIK) Install Switch 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, remove the firewall plug.
- c. Inside the vehicle, remove the plastic cover on the driver's side center console using a small flat screwdriver.
- d. Install the switch case in place of the stock plastic cover.
- e. Secure the switch case to the center console by inserting the supplied clip in the slot on the switch case and onto the edge of the center console.
- f. Run the Switch Harness under the dashboard and through the firewall hole.
 - o Do not install the firewall plug at this time.
- g. Run the Switch Harness connector along the firewall towards the ECU.
- h. Connect the Switch Harness connector to the ECU Main Plug.

8. Final Set Up

Make sure vehicle ignition is off.

- a. Open the vehicle hood.
- b. NOW CONNECT THE 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 Switch panel or E-CLIK touch screen controller are powered on.
 - o For touch screen controller:
 - 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 in the user manual.
 - Confirm the main menu appears on the screen.
 - o For the Switch panel:

- Confirm LEDs are illuminated and not blinking.
 - If LEDs are blinking refer to the Error code chart in the user manual.
- 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 top of the frame.
 - For the left rear shock harness follow the differential breather routing and secure at the stock locations and then to the stock wiring harness near the shock.
 - Along the firewall, use stock wire harness retainer locations.
- g. Slide firewall plug up the harness and install into firewall hole.
- h. 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.
 - Rotate selector ring to 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.
- i. Tighten the 2 bolts on the IMU adjuster bracket with a 4mm Allen key.
- j. Close the vehicle hood.

Refer to “SDI-IM-2051007.v2 - E-CLIK PRO Jeep ALL User Guide”, “SDI-IM-2051006.v2 - E-CLIK Active Jeep ALL User Guide” or “SDI-IM-2051005.v2 - E-CLIK Jeep ALL 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 -
			Butt Connector		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
2-Pin Male		Front * Sway Bar	2-Pin Male		Front Sway Bar
2-Pin Female		Rear * Sway Bar	2-Pin Male		Rear Sway Bar
6-Pin Male		Data	6-Pin Male		IMU Sensor
			5-Pin Male		Touch Screen
			16-Pin OBD-II		OBD-II Diagnostic Port
6-Pin Female		Switches	4x Female Connectors		Front Shocks Switch
			4x Female Connectors		Rear Shocks Switch
2-Pin Female		HS Button*	2x Female Connectors		HS Button

*Not used in this installation.