



SDi **E-CLIK**

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

Jeep

Wrangler/Rubicon JK 2/4 Door

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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. 13mm Socket
3. 10mm Socket
4. T30 Torx Key
5. T20 Torx Key
6. 4mm Allen Key
7. Small Flathead Screwdriver
8. Phillips Screwdriver
9. Power Drill + ¼" Drill Bit or Step Bit
10. Plastic Clip Removal Tool
11. Cutting Pliers
12. 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 pattern.
- 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 facing the left 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 hood of the vehicle.
- b. Locate the 2 plastic clips on top of the firewall that retain the windshield wiper cowl and remove it using a plastic clip removal plier.
- c. Close the hood of the vehicle.
- d. Remove the windshield wiper arms nuts using a 13mm socket and ratchet.
- e. Remove the windshield wipers arms using a flathead screwdriver.
- f. Unbolt the 4 bolts retaining the windshield wiper cowl using a T30 Torx key.
- g. Remove the windshield wiper cowl.
- h. Locate and unbolt the 2 center bolts of the windshield hinge using a 13mm socket and ratchet.
- i. Install the IMU sensor bracket onto the windshield hinge using the 2 stock bolts.
- j. DO NOT REINSTALL THE WINDSHIELD WIPER COWL AT THIS TIME, AS YOU WILL NEED TO ZERO THE IMU SENSOR IN THE FINAL STEP.

3. Install Power Harness

Make sure vehicle ignition is off.

Note: You will secure all harnesses at the end once you ensure 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 M9 (20 AMP Rear Heated Seats).
- e. Remove the stock 20 AMP Fuse if equipped.
- f. If equipped, place the Fuse in the bottom slot of the provided fuse tap.
- g. Insert the provided fuse tap into the M9 slot of the fuse box.

- h. Cut a V-shaped opening on the edge of the fuse box using a utility knife.
- i. Run the blue ignition wire out of the fuse box through the V-shaped cut 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: *You will secure all harnesses at the end once you ensure 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 shocks harness to the ECU Main Plug.
- d. Run the Front Left (driver's side) Shock harness along the firewall, down the 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 inner front fender.
- g. Connect the 2-pin connector of the passenger side shock harness to the front right shock coil.

5. Install Rear Shock Harness

Make sure vehicle ignition is off.

Note: *You will secure all harnesses at the end once you ensure 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 shocks 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 (driver side's) shock harness across the top of the frame 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: You will secure all harnesses at the end once you ensure 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 driver's side stock A-pillar trim.
 - o Remove the driver's side sun visor by taking out the 2 screws with a T20 Torx key.
 - o Remove the driver's side upper window trim with a Phillips screwdriver.
 - o Remove the driver's side lower A-pillar trim by grabbing at the top, pulling down and removing.
 - o Run the Touch Screen Controller harness down between the dashboard and the door opening trim.
 - o Place the SDi A-pillar case with Touch Screen Controller in place of the stock A-pillar trim. Make sure you hear it click twice to secure in place.
 - o Replace the driver's side upper window trim with a Phillips screwdriver ensuring the white locating pin goes into its hole.
 - o Replace the driver's side sun visor by installing the 2 screws with a T20 Torx key.
- d. Plug the OBD-II harness connector into the vehicle's OBD-II diagnostic port.
- e. Run the OBD-II harness under the dashboard.
- f. Feed the Red IMU harness connector through the firewall hole.
- g. Feed the Orange Data Harness connector through the firewall hole, leave the harness loose.
 - o Do not install the firewall grommet at this time.
- h. Run the Data harness along the firewall towards the ECU.
- i. Connect the Orange Data harness connector to the ECU Main Plug.
- j. Run the IMU Data harness along the firewall, towards the location of the IMU sensor.
- k. Connect the Red IMU harness connector to the IMU sensor, and lock the red lock tab.

7. (ONLY E-CLIK) Install Switch Harness

Make sure vehicle ignition is off.

Note: You will secure all harnesses at the end once you ensure 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 driver's side stock A-pillar trim.
 - o Remove the driver's side sun visor by taking out the 2 screws with a T20 Torx key.
 - o Remove the driver's side upper window trim with a Philips screwdriver.
 - o Remove the driver's side lower A-pillar trim.
 - o Run the Switch harness down between the dashboard and the door gap.
 - o Place SDi A-pillar case in place of the stock A-pillar trim.
 - o Replace the driver's side upper window trim with a Philips screwdriver.

- Replace the driver's side sun visor by installing the 2 screws with a T20 Torx key.
- d. Run the Switch Harness under the dashboard and through the firewall hole.
 - Do not install the firewall grommet at this time.
- e. Run the Switch Harness connector along the firewall towards the ECU.
- f. Connect the Switch Harness connector to the ECU Main Plug.

8. Final Set Up

Make sure vehicle ignition is off.





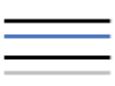













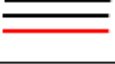
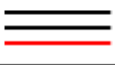


- a. Open the vehicle hood.
- b. NOW CONNECT THE 4-PIN CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG.
- c. Make sure all connectors are securely plugged in.
- d. Turn on the ignition.
- e. Confirm the Switch panel or E-CLIK touch screen controller are powered on.
 - For touch screen controller:
 - 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.
 - 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 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 grommet 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.
 - Loosen the two bolts that hold the IMU adjuster plate.
 - 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.
 - k. Reinstall the windshield wiper cowl.
 - l. Reinstall the windshield wiper arms.
 - m. Tighten the windshield wiper nuts using a 13mm socket and ratchet.
 - n. Install the 4 bolts retaining the windshield wiper cowl using a T30 Torx key.
 - o. Open the hood of the vehicle.
 - p. Reinstall the 2 plastic clips on top of the firewall that retain the windshield wiper cowl.
 - q. Close the hood of the vehicle.

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.