

The background of the entire page is a photograph of a vast desert landscape with rolling sand dunes under a clear blue sky. Two ATVs are parked on the dunes, each with a tall antenna pole topped with a red flag. Overlaid on the center of the image is the 'SDI E-CLIK' logo. The 'SDI' is in a white, italicized, sans-serif font with a black outline and a red horizontal bar on the top of the 'I'. The 'E-CLIK' is in a larger, white, italicized, sans-serif font with a black outline. The 'E' is stylized with a red lightning bolt shape extending downwards from its bottom bar.

# **SDI E-CLIK**

***SDI E-CLIK  
POLARIS RZR  
ELECTRONICS  
INSTALLATION GUIDE***

# SDi E-CLIK Electronics Polaris RZR Installation Manual

## E-CLIK Electronics Package Content

1. ECU + Bracket and Hardware
2. IMU + Bracket and Hardware
3. Touch Screen Controller + Bracket and Hardware
4. ECU + Touch Screen Placement Templates
5. Wiring Harnesses + Zip Ties
  - a. ECU Main Plug
  - b. Power Harness
  - c. Front Shocks Harness
  - d. Rear Shocks Harness
  - e. HS Button Harness
  - f. Data Harness
  - g. **(Optional)** Switch Harness with Switches
  - h. **(for Turbo R / PRO R)** Front and Rear Rebound Shocks Harnesses
  - i. **(for FOX Live Valve Shocks only)** Shock connector covers

## Required Tools

1. Ratchet
2. 10mm Socket
3. 4mm Allen Key
4. T27 Torx Key
5. T40 Torx Key
6. Small Flathead Screwdriver
7. Power Drill + ¼" Drill Bit or Step Bit
8. Plastic Clip Removal Tool
9. Cutting Pliers
10. Utility Knife

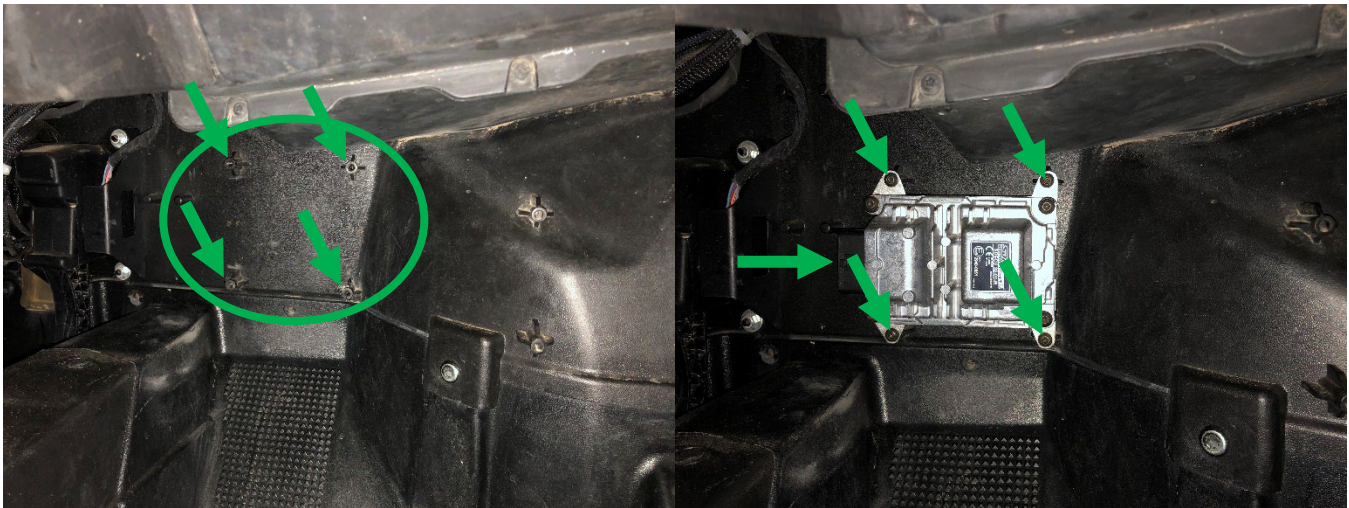
## Estimated Installation Time

1 to 2 hours

# SDi E-CLIK Electronics Polaris RZR Installation Manual

## 1. Install ECU for RZR 1000 / Turbo S

- a. Locate the 4x stock plastic inserts above the footrest of the passenger side (see picture below).
- b. Mount the ECU and Bracket using the supplied hardware with a 4mm Allen key (see picture below).
- c. Secure the ECU Main Plug in the ECU receptacle and lock it.



## 2. Install ECU for PRO XP / PRO R / Turbo R

- a. Apply the ECU Placement Template under the passenger glove box
- b. Drill the 4x designated holes with a power drill and ¼" drill bit or step bit.
- c. Mount the ECU using the supplied hardware with 4mm Allen key and 10mm socket (see picture below).
- d. Secure the ECU Main Plug in the ECU receptacle and lock it.



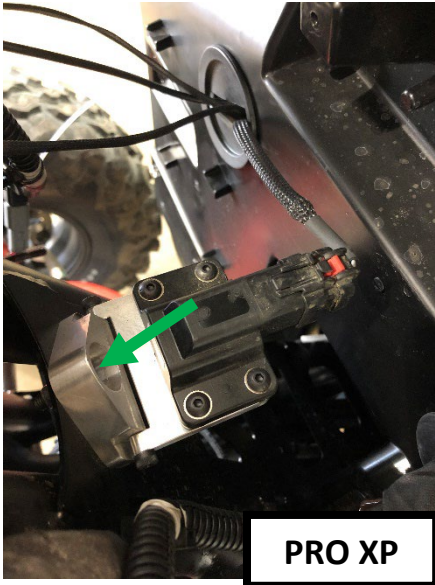
### 3. Install IMU for RZR 1000 / Turbo S

- a. Remove the hood of the vehicle.
- b. Unbolt the 2x screws of the center console using a T40 Torx key (see picture below).
- c. Remove the center console by detaching the 2x indicated clips (see picture below).
- d. Use a 10mm socket to remove the stock center bolt (glove box holder) (see picture below).
- e. Place and bolt IMU Bracket on the frame with the IMU connector facing the rear of the vehicle, using the previously removed stock bolt (see picture below).
- f. DO NOT REINSTALL THE CENTER CONSOLE YET, AS MORE HARNESSES STILL NEED TO BE INSTALLED.



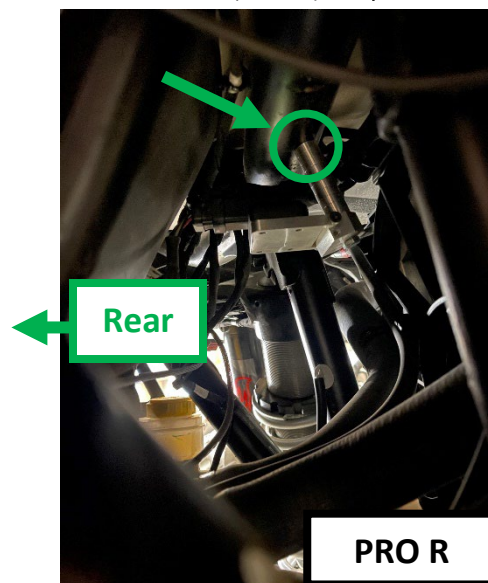
#### 4. Install IMU for PRO XP

- a. Locate the center hole on the frame between the front shocks (see picture below).
- b. Place the IMU bracket on the center hole of the frame using the supplied hardware.
- c. The IMU connector faces the rear of the vehicle.
- d. Use a 10mm socket and a 10mm wrench to secure the IMU in place (see picture below).



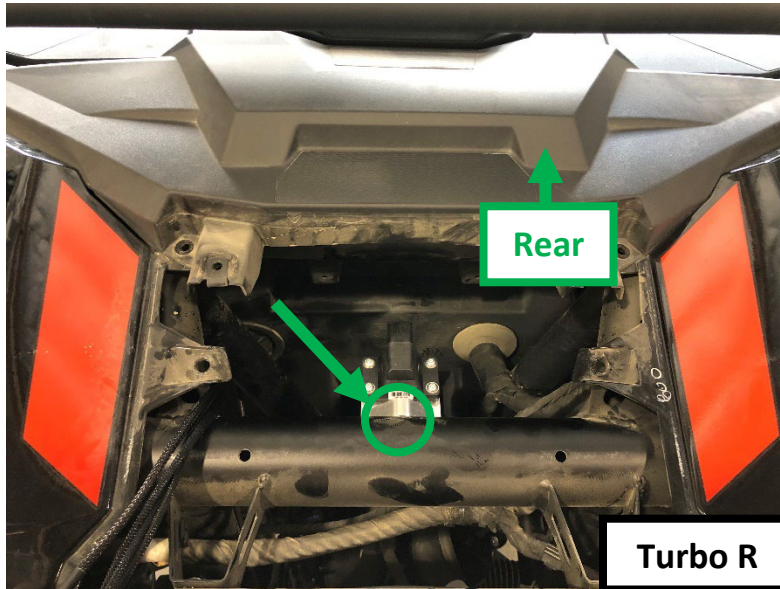
#### 5. Install IMU for PRO R

- a. Locate the center hole on the frame between the front shocks (see picture below).
- b. Tap hole to 5/16-18 thread size.
- c. Place the IMU bracket on the center hole of the frame using the supplied hardware and spacer (see picture below).
- d. The IMU connector faces the rear of the vehicle.
- e. Use a 1/2" Socket to secure the IMU in place (see picture below).



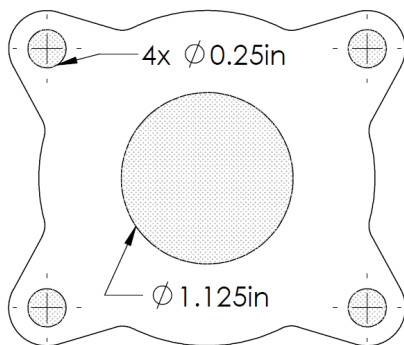
6. Install IMU for Turbo R

- a. Locate the center hole on the frame between the front shocks (see picture below).
- b. Tap hole to 5/16-18 thread size.
- c. Place the IMU bracket on the center hole of the frame using the supplied hardware.
- d. The IMU connector faces the rear of the vehicle.
- e. Use a ½" socket to secure the IMU in place (see picture below).



7. Install Touch Screen for RZR 1000 / Turbo S

- a. Apply the Touch Screen Placement Template on the center console.
- b. Drill the 5x designated holes with a power drill, ¼" drill bit and step bit (see picture below).
- c. Mount the Touch Screen using the supplied hardware with 4mm Allen key and 10mm socket.
- d. Make sure the Touch Screen Home Button is oriented down (see picture below).

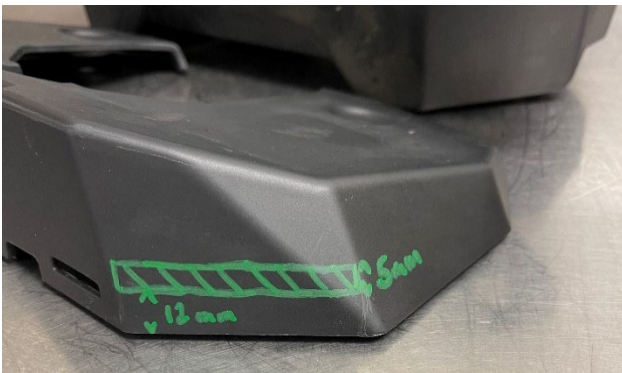
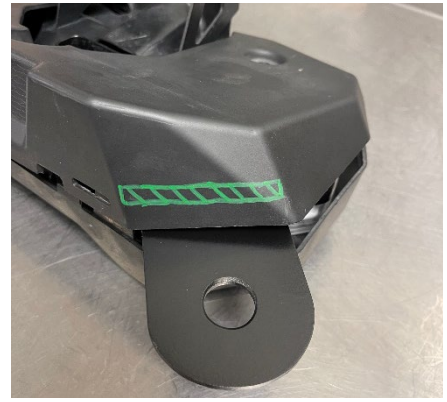
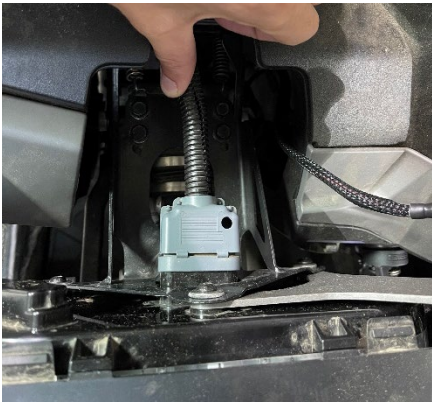


**TOUCH SCREEN  
Placement Template**



## 8. Install Touch Screen for RZR Turbo R / PRO R

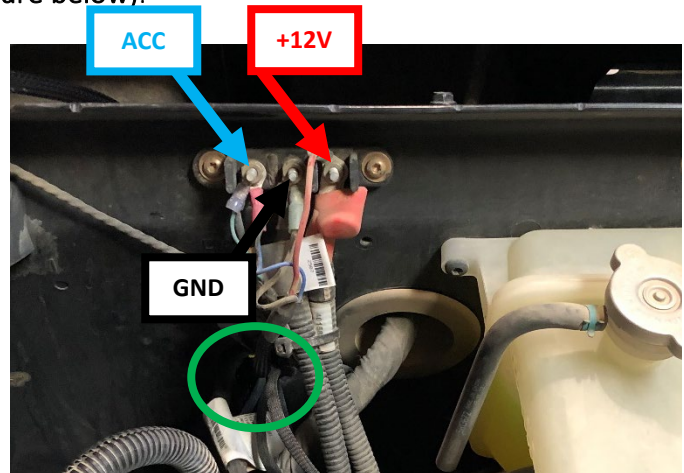
- a. Remove the instrument panel bracket (4x bolts) with a 10mm socket.
- b. Separate the instrument panel and bracket by removing the 3x T27 screws.
- c. Place the Touch Screen mounting plate in the back of the instrument panel (see picture below).
- d. Trace, check, and cut a slot in the instrument panel back cover (see picture below).
- e. Reassemble the instrument panel assembly and reinstall the instrument panel bracket back in place.
- f. Install the ECLIK Touch Screen on the Touch Screen mounting plate following the supplied instructions (see picture below).



## 9. Install Power Harness for RZR 1000 / Turbo S

*Make sure vehicle ignition is off.*

- a. Refer to wiring diagram for callouts of wire function and color (page 13).
- b. Connect the red wire ring connector of the power harness to the +12V (+) pin of the vehicle connections with 10mm socket (**see picture below**).
- c. Connect the black wire ring connector of the power harness to the GND (-) pin of the vehicle connections with 10mm socket (**see picture below**).
- d. Connect the blue wire ring connector of the power harness to the ACC pin of the vehicle connections with 10mm socket (**see picture below**).
- e. Route the power harness 4-pin male black connector through the hole in the firewall.
- f. **DO NOT CONNECT THE 4-PIN MALE BLACK CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG UNTIL FINAL STEP.**



## 10. Install Power Harness for PRO XP / PRO R / Turbo R

*Make sure vehicle ignition is off.*

- a. Refer to wiring diagram for callouts of wire function and color (page 13).
- b. Remove the top glove box cover and compartment.
- c. Connect the power connector of the accessories power buss of the vehicle (**see picture below**).
- d. Route the power harness from under the glove box to the SDi ECU.
- e. **DO NOT CONNECT THE 4-PIN MALE BLACK CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG UNTIL FINAL STEP.**



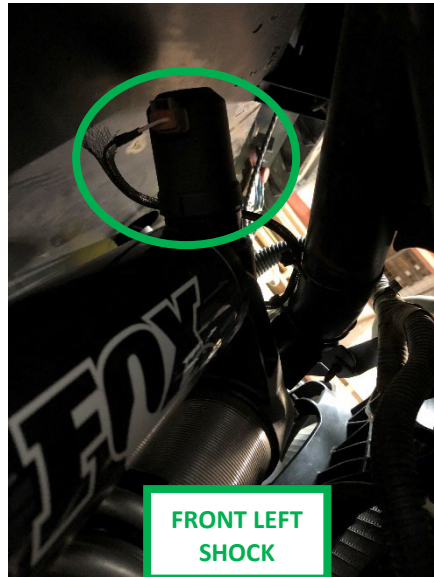
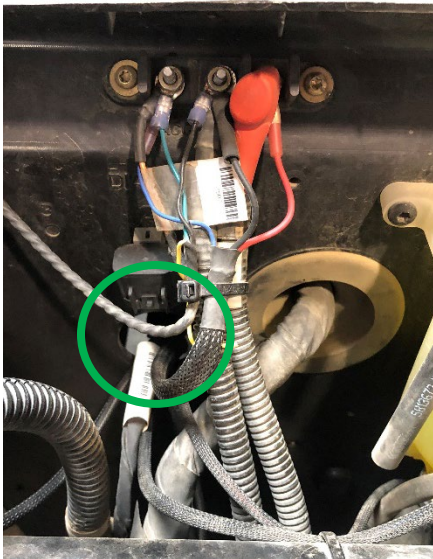
**PRO XP / PRO R / Turbo R**

## 11. Install Front Shocks Harness

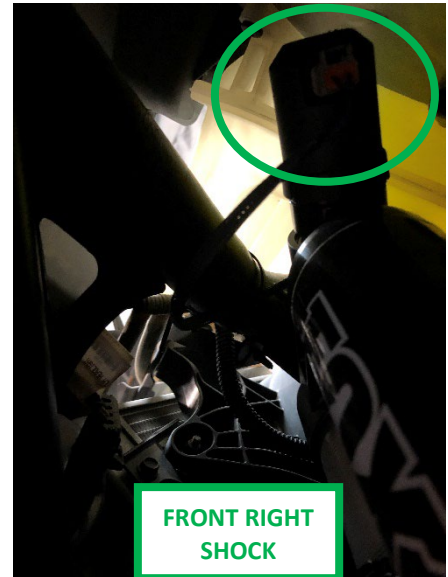
*Make sure vehicle ignition is off.*

*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 13).
- b. Connect the 4-pin male grey connector of the front shocks harness to the ECU Main Plug.
- c. Run the front left and right shock harness under the center console, through the hole in the firewall (see pictures below).
- d. Connect the "FL" 2-pin male connectors of the driver side shock harness to the front left shock coil (see pictures below).
- e. Connect the "FR" 2-pin male connector of the passenger side shock harness to the front right shock coil (see pictures below).
- f. **Optional for PRO R and Turbo R (Fox Shocks Only): Repeat steps 10.b to 10.e for the Front Shocks Rebound Harness.**



FRONT LEFT  
SHOCK



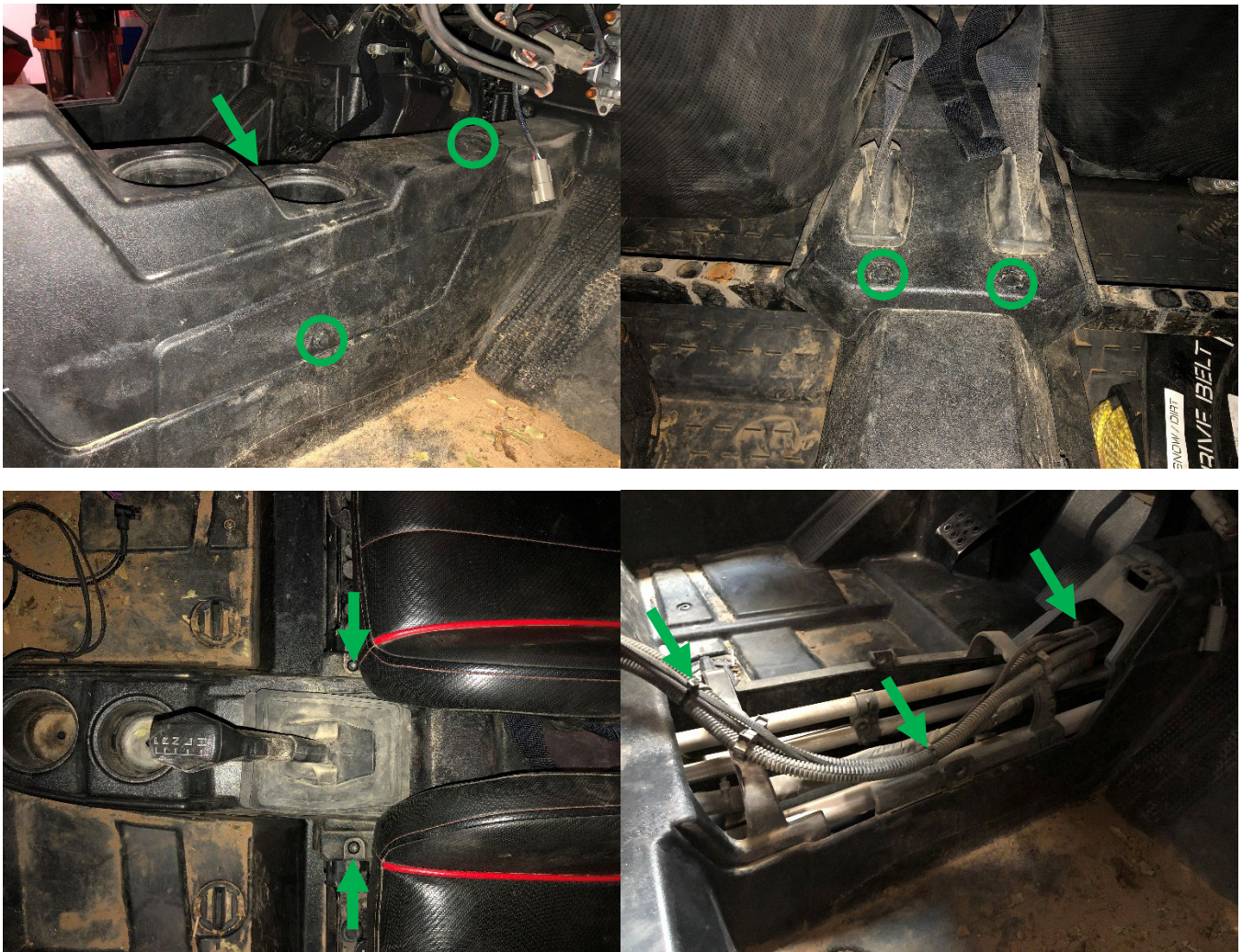
FRONT RIGHT  
SHOCK

## 12. Install Rear Shocks Harness

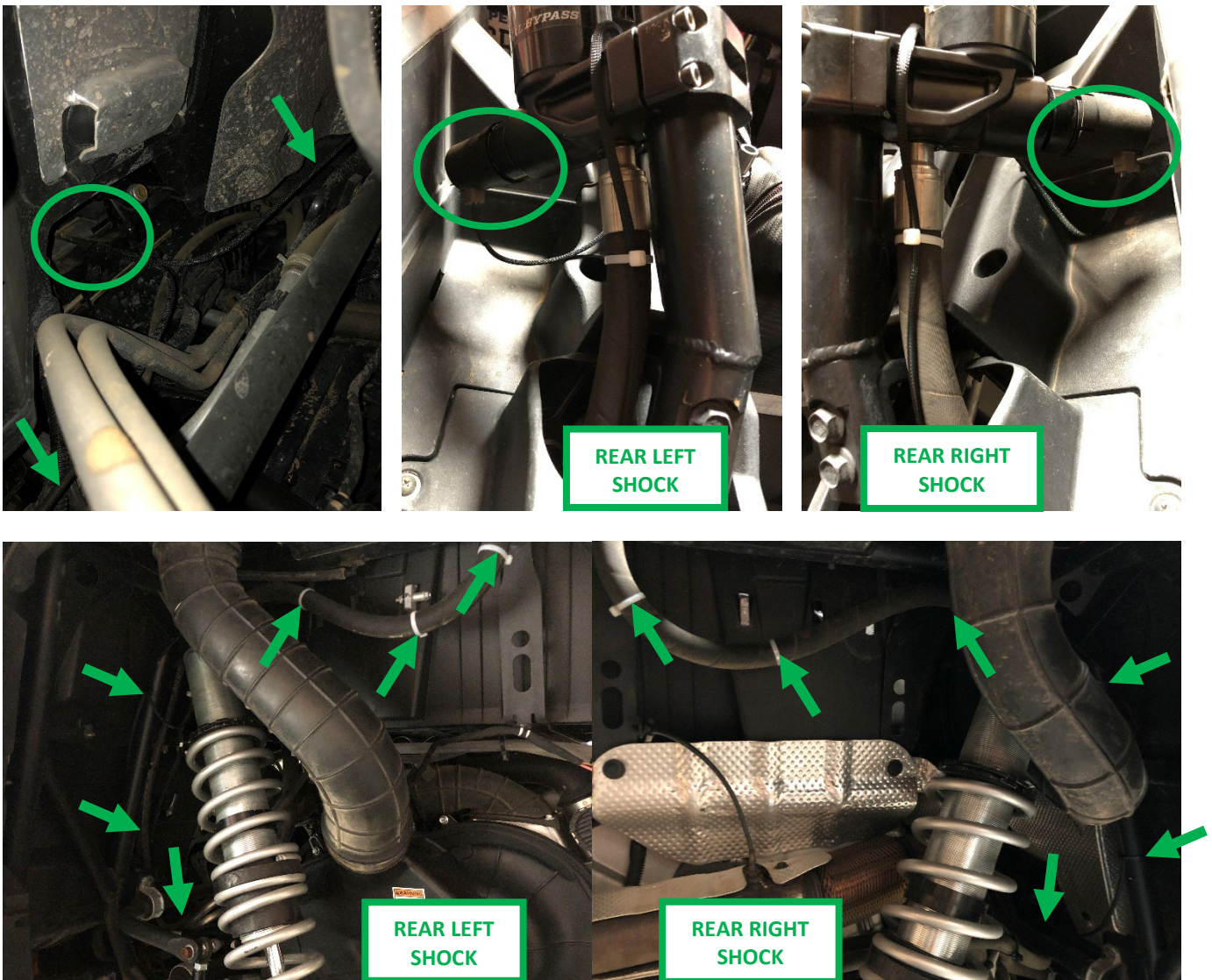
*Make sure vehicle ignition is off.*

*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 13).
- b. Connect the 4-pin female grey connector of the rear shocks harness to the ECU Main Plug.
- c. Run the rear shock harnesses under the center console, through the hole in the firewall.
- d. Remove the lower console between the seats by unbolting the 2x screws using a T40 Torx key, and the 5x plastic clips using a plastic clip removal tool (see picture below).
- e. Run the rear left and right shock harness under the lower console, following the stock wire harness until the engine location (see pictures below).



- f. Route the rear left shock harness along the vehicle's frame all the way to the rear left shock coil (see picture below).
- g. Connect the "RL" 2-pin male connector of the rear left shock harness to the rear left shock coil (see picture below).
- h. Route the rear right shock harness along the vehicle's frame all the way to the rear right shock coil. Be sure to route it behind the heat shield (see picture below).
- i. Connect the "RR" 2-pin male connector of the rear right shock harness to the rear right shock coil (see picture below).
- j. Optional for PRO R and Turbo R (Fox Shocks Only): Repeat steps 11.b to 11.i for the Rear Shocks Rebound Harness.**
- k. Reinstall the lower console between the seats secured by the 2x T40 screws and the 5x plastic clips.

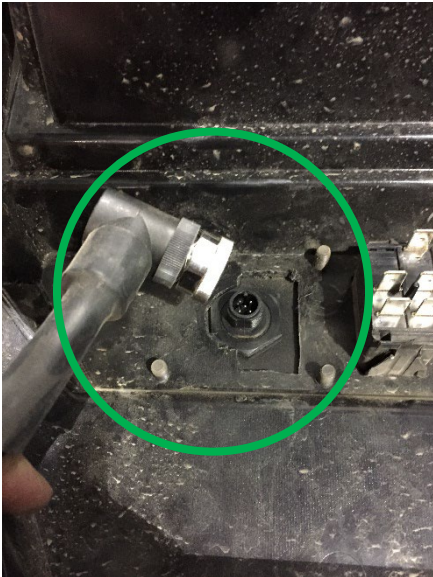


### 13. Install Data Harness

*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 13).
- b. Connect the 6-pin male black connector of the data harness to the ECU Main Plug.
- c. Run the data harnesses under the center console:
  - o Route the Touch Screen Harness under the center console.
  - o Connect and secure the 5-pin circular 90deg connector to the Touch Screen (see picture below).
  - o Route the IMU Harness under the center console.
  - o Connect and lock the 6-pin male red connector of the IMU harness to the IMU sensor (see picture below).
  - o Route the Diagnostic harness through the hole in the firewall.
  - o Remove the stock Diagnostic connector cover (see picture below).
  - o Connect and secure the 8-pin female connector to the vehicle's diagnostic connector (see picture below).



#### 14. (Optional) 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. Refer to wiring diagram for callouts of wire function and color (page 13).
- b. Connect the 6-pin female black connector of the switch harness to the ECU Main Plug.
- c. Run the switch harness under the center console, from behind the ECU until the center console of the vehicle.
- d. Using a utility knife, cut 2 slots in the center console of the vehicle to host the 2 switches.
- e. Connect front and rear switches to the switch harness pink connectors.
- f. Install the front and rear switches in the center console of the vehicle.

#### 15. Install HS Button Harness for RZR 1000 / Turbo S

*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 13).
- b. Attach the HS Button to the Steering Wheel using the Velcro strap, on the side of your choice (see picture below).
- c. Run the HS Button harness under the center console, from the Steering Wheel of the vehicle until the ECU (see picture below).
- d. Connect the 2-pin female black connector of the HS Button harness to the ECU Main Plug.



## 16. Final Set Up

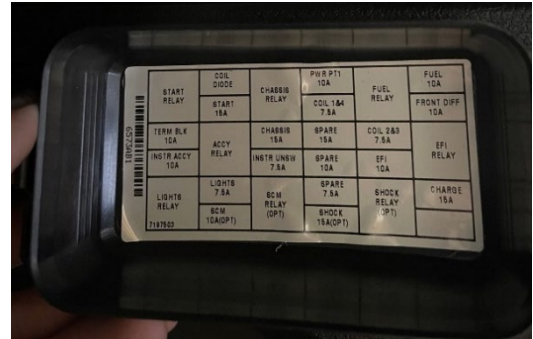
Make sure vehicle ignition is off.

### a. Optional for PRO R and Turbo R (Fox Shocks Only):

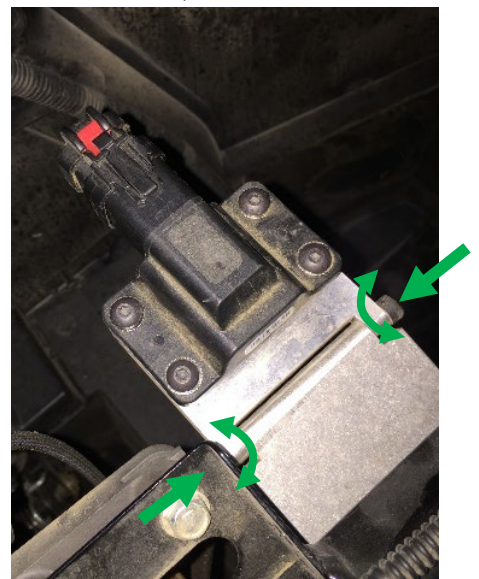
Install the supplied shock connector covers on all OE shock connectors (2 per shock).

### b. Optional for PRO R and Turbo R (Fox Shocks Only):

Remove the **SCM 10A** **AND** the **SHOCK 15A** fuses (see picture below).




























- c. NOW CONNECT THE 4-PIN MALE BLACK CONNECTOR OF THE POWER HARNESS TO THE ECU MAIN PLUG.
- d. Make sure all connectors are securely plugged in.
- e. Turn on the ignition.
- f. 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.
    - Confirm the main menu appears on the screen.
  - o For the Switch panel:
    - Confirm LEDs are illuminated and not blinking.
- g. Secure all wiring harnesses with supplied zip-ties.
  - o Ensure they are not running close to the vehicle’s exhaust or any potential sources of pinching, chafing or other damage.
- h. Calibrate/Zero the IMU sensor:
  - o Place the vehicle on a level surface, side to side and front to back.
  - o Turn on the ignition.
  - o Rotate the selector ring on the touch screen display and touch the Output Menu icon.
  - o Swipe right to the tilt angle display menu.
  - o 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:
      - Loosen the IMU adjuster bracket with the 4mm Allen Key (see picture below).
      - 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 (see picture below).
- j. Reinstall the center console of the vehicle by bolting the 2x screws using a T40 key.





## Wiring Harness Color Chart

Start	Wire Color	Function	End	Wire Color	Destination
4-Pin Male		Power	3-Pin Male	 Battery +	
				 Battery -	
				 ACC	
4-Pin Male		Front Comp Shocks	2-Pin Male	 Front Left Shock	
			2-Pin Male	 Front Right Shock	
4-Pin Female		Rear Comp Shocks	2-Pin Male	 Rear Left Shock	
			2-Pin Male	 Rear Right Shock	
2-Pin Male		Front Reb Shocks	2-Pin Male	 Front Left Shock	
			2-Pin Male	 Front Right Shock	
2-Pin Female		Rear Reb 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	
			8-Pin Female	 Diagnostic Port	
6-Pin Female		Switches	4x Female Connectors	 Front Shocks Switch	
			4x Female Connectors	 Rear Shocks Switch	
2-Pin Female		HS Button	Push Button	 HS 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
9040	Front Rebound	Open Circuit	1. Check connection between ECU and Front Shocks Rebound, 2. Replace Front Shocks Rebound Harness
9041	Front Rebound	Short Circuit to Power	1. Check connection between ECU and Front Shocks Rebound, 2. Replace Front Shocks Rebound Harness
9042	Front Rebound	Short Circuit to Ground	1. Check connection between ECU and Front Shocks Rebound, 2. Replace Front Shocks Rebound Harness
9043	Front Rebound	Deviation of Current	1. Check connection between ECU and Front Shocks Rebound, 2. Replace Front Shocks Rebound Solenoid Coil
9044	Rear Rebound	Open Circuit	1. Check connection between ECU and Rear Shocks Rebound, 2. Replace Rear Shocks Rebound Harness
9045	Rear Rebound	Short Circuit to Power	1. Check connection between ECU and Rear Shocks Rebound, 2. Replace Rear Shocks Rebound Harness
9046	Rear Rebound	Short Circuit to Ground	1. Check connection between ECU and Rear Shocks Rebound, 2. Replace Rear Shocks Rebound Harness
9047	Rear Rebound	Deviation of Current	1. Check connection between ECU and Rear Shocks Rebound, 2. Replace Rear Shocks Rebound Solenoid Coil