



General Applicability:

2018 Chevrolet Equinox / 2018 Buick Encore

Issues

NOTE: Buick Encore does NOT use aftermarket ball mounts on tailgate.

Kit Contents:

Item#	Component Description
1	Stay Bar (Strut)(right)
2	Stay Bar (Strut)(left)
3	Stay Bar (Strut)Ball Mount – Vehicle side
4	Stay Bar (Strut)Ball Mount – Tailgate side
5	Control Box
6	Control Box Brackets
7	Front Switch w/Harness
8	Rear Switch
9	Rear Buzzer
10	BUS Box w/Harness
11	Main Harness
12	Power Supply Harness
13	Rear Button / Buzzer Harness
14	Lock Control Harness
15	Hardware bag (Screws)

Installation Kit Contents:

Item#	Component Description
1	16mm Hole Bit
2	28mm Hole bit
3	Rear Switch Template
4	Warning Labels

Recommended Tools:

Safety Tools	
Seat/ Floor Covers	Blankets
Installation Tools	
7mm Socket / Ratchet	Drill / Assorted Bits
13mm Socket / Ratchet	Side Cutters
16mm Socket / Ratchet	File
Allen Wrenchs(5mm)	Razor Knife
NRT-Nylon Removal Tool	T30 Torx Screwdriver
Hook Tool	Phillips Screwdriver (stubby)
Pick	Small Flat Screwdriver
Special Tools	

Legend

	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury.
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.
	REVISION MARK: This mark highlights a change in installation with respect to previous issue.

PRECAUTION / INSTALLATION NOTES:

- After **Safety** mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation.
- When prying panels, use masking tape on all surfaces that a tool may come in contact with to prevent marring.
- After a wire tie is fully fastened, cleanly cut excess wire tie length with a pair of wire cutters.
- The wiring information is on an “as is” basis without any representation or warranty. It is the installer’s responsibility to verify any circuit before interfacing with it using a digital multi-meter.
- Manufacturer’s service documents can be used for any vehicle disassembly that may be depicted differently from what the instruction states.
- To ensure safety and normal usage of the liftgate, please let a professional complete the install. Do not dismantle the liftgate product, may cause damage to vehicle. .
- Start engine before installation; check dashboard display function, check button operation, and check for scratches or damage to exterior and interior. Report any issues immediately.
- Check whether the Tailgate can normally open and close. Check that interior lights are working with tailgate operation.
- Do not change any wires with engine ON.



TECHNICAL BULLETIN

ADVLFTRAX – Chevrolet Trax / Buick Encore Power Liftgate

Chevrolet Trax:

When Installing the ADVLFTRAX on the Trax, the upper (liftgate side) strut ball mount is replaced with the kit ball mount.

Refer to page 7 process number C1.



Buick Encore:

When Installing the ADVLFTRAX on the Encore, the upper (liftgate side) strut ball mount **DOES NOT** get replaced.

Refer to page 7 process number C1.



A. Pre-Installation Precaution and Preparation

1. 2018-19 Trax / Buick Encore. (Figure A1a-b)
2. Familiarize yourself with the installation instructions. Inspect kit components to verify everything is present, there is no damage, and to familiarize yourself with the parts.
3. Use Seat and Floor protectors to avoid damage to vehicle surfaces.



Disconnecting the battery prior to any ground or harness removal/ tapping to prevent possible vehicle damage is recommended. The battery may be temporarily reconnected and disconnected throughout the installation process to perform various tasks. However, prior to doing so all connectors and harnesses must be reassembled and reconnected. Once tasks are completed disconnect battery until installation is complete and Electric Tailgate system is ready to be tested. After testing, the vehicles interior may be re-assembled. Disconnecting the battery may cause certain vehicle settings to be lost. Manufacturer's recommendations for the battery removal should be followed.

B. Disassemble Vehicle Trim

1. Detach upper tailgate cover by using a Nylon Removal Tool /NRT and prying along upper edge. (Figure B1a-b) 
2. Using a small pick or flat screwdriver pry the 2 tabs out slightly, releasing plastic pocket insert. (Figure B2a-b) 

Figure A1a



Figure A1b



Figure B1a



Figure B1b



Figure B2a



Figure B2b



3. Place template onto rear liftgate cover with template aligned with pocket opening. Hold template in place with tape. Using the 16mm drill bit (supplied), drill at center point marked. Drill pilot hole through plastic and metal. Drill 16mm



through plastic only. **NOTE: it is important that you DO NOT drill through the metal with the 16mm bit, once cover is removed the hole will be drilled with 24mm bit (page 16).**

(Figure B3a-c) 

Figure B3a



Figure B3b



Figure B3c



4. By hand pry the tailgate cover of the tailgate.

There are 8 plastic fasteners holding the panel in place. **NOTE: When removing tailgate panel continuously work around the panel and not putting too much stress in any area.**



(Figure B4)

Figure B4



5. By hand loosen 2 metal clips on right-side trim panel from tailgate. **DO NOT try to remove the center hanger, it is a onetime press in part.**



(Figure B5)

Figure B5



6. Loosen rubber harness gasket from between the vehicle and the liftgate. (Figure B6)

Figure B6



7. Loosen rubber gasket and left rear trim panel of the tailgate opening. (Figure B7)

Figure B7



8. Loosen rear driver side rubber gasket and remove lower door sill panel. (Figure B8)

Figure B8



9. By hand remove twist nut from upper front corner of the driver lower door sill panel. Pull up and remove lower panel. (Figure B9a-b)

Figure B9a



Figure B9b



10. Using an NRT pry the driver side IP panel off.
 Open small storage compartment at the left side of steering wheel. Remove by pressing the sides of the compartment and releasing upper tabs, the pull outward to release lower tabs.

(Figure 10a-b) 

Figure B10a



Figure B10b



11. Using a #2 Phillips screwdriver remove the screw holding the OBD bracket. Using a 7mm socket remove screw holding OBD bracket.

(Figure B11) 

Figure B11

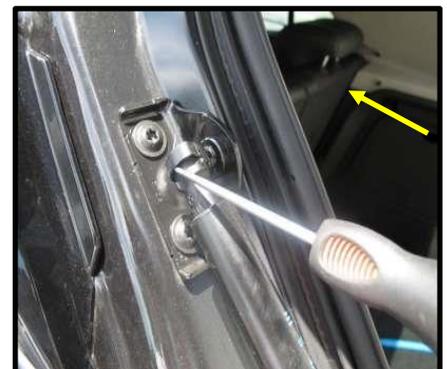


12. Using a hook tool pull out on retaining clips of the rear tailgate air struts. Do not remove clip completely, by wedging hook tool between clip and strut should allow removal of the strut.

Figure B12a



Figure B12b



NOTE: To perform this process the installer must have a second person to hold the tailgate up or jack stand to hold tailgate in place. (Figure B12a-b) 



13. Using T30 Torx remove vehicle side ball mount. Using a 13mm socket, remove the upper



liftgate strut ball mount from the tailgate. **NOTE**



DO NOT replace the upper mount on the Encore. Repeat on opposite side of vehicle.

(Figure B13a-b) 

Figure B13a



Figure B13b



C. Electric Strut Bar Installation

1. Install new vehicle (lower) side strut ball mount using a 5mm Allen wrench. Install new upper



liftgate ball mount (**TRAX ONLY**). **NOTE: the TRAX does have the upper liftgate ball mount changed. The Encore uses the factory upper mount.** (Figure C1a-b) 

Figure C1a



Figure C1b



2. Install new electric struts into place making sure that the strut marked **RIGHT** is on the Passenger side. Push strut socket onto strut ball with harness up and facing the tailgate. Continue installing Driver's side strut. (Figure C2a-c)

Figure C2a



3. Using supplied drill bit, drill 16mm hole through side wall of the tailgate approximately 40mm or 4cm rear of strut mount. **CAUTION: check drill**



bit supplied for size and depth.

(Figure C3a-c) 

Figure C2b



Figure C2c



Figure C3a



Figure C3b



Figure C3c

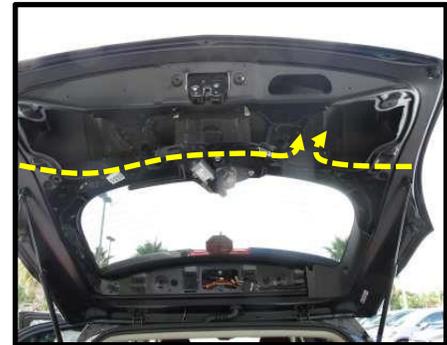


4. Route strut cable through hole and push bushing into the hole. Continue routing cable into liftgate area towards control module position.
(Figure C4a-b)

Figure C4a



Figure C4b



D. Control Box Location

1. Temporarily mount Control Box in right rear opening of the tailgate. The Control box will mount above the support frame. Install the 2 brackets as shown. The screws should run from the top bracket down to the lower bracket. Do not crush the bracket by tightening the screws too tight. Place the module up into cavity and mount with the 2 smaller screws. **NOTE: Leave control box hand tight until installation is complete.** (Figure D1a-c)

Figure D1a



Figure D1b



Figure D1c



E. Rear Cable Routing

1. Locate Tailgate button connector (yellow/black cable /Black connector). Disconnect the connector and insert Button T-harness 3110122001140. (Figure E1a-b)

Figure E1a

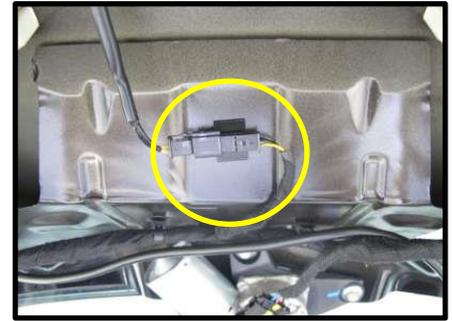


Figure E1b



2. Locate Tailgate latch connector (Blue-Grey Cable/ Black connector). Disconnect the connector and insert Lock T harness of 3110122001019. Continue routing cable towards Control Box. (Figure E2a-b)

Figure E2a



3. Mount buzzer and harness 1901454235500 to rear tailgate in location that will not interfere with tailgate trim panel. This cable also plugs into rear switch. (Figure E3)

Figure E3



4. Route the main harness through the rubber gasket. Allow enough harness to extend towards rear to reach Control box. **NOTE: use a wire puller to pull harness through gasket. Protect harness connectors by taping over them so they pass through easier.** (Figure E4)

Figure E4



5. Continue routing main harness into liftgate.

Once inside liftgate route harness following factory harness to rear of liftgate and Control box securing harness with supplied wire ties.

(Figure E5a-c)

Figure E5a

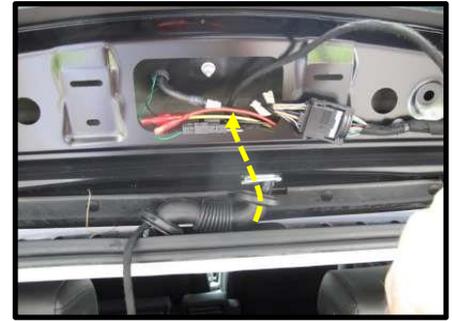


Figure E5b

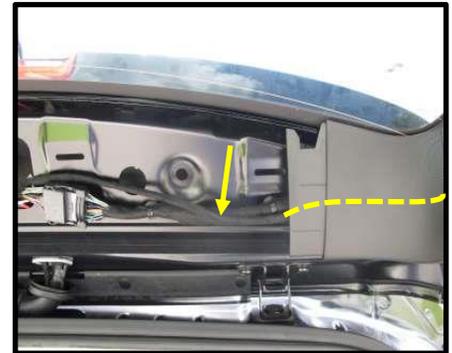
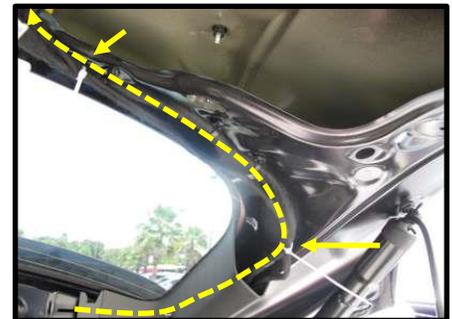


Figure E5c



6. Using a 7mm socket install ground terminal of the main harness to the stud shown in figure.

(Figure E6) 

Figure E6



7. Now route main harness into vehicle. Continue routing main cable through gasket between headliner and over to rear side panel. Continue behind side interior panel making sure harness is routed over upper clip. **DO NOT route harness where it may interfere with seat belt.**

Figure E7



8. Once harness exits passenger door area, tuck harness alongside trim panel and across sill area (Figure E8a-b)

Figure E8a

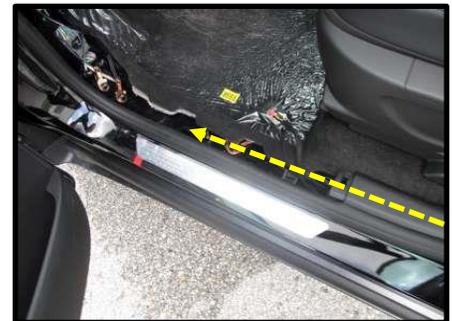


Figure E8b



9. Continue routing cable forward tucked under lower B-pillar panel and into driver side sill area. (Figure E8)

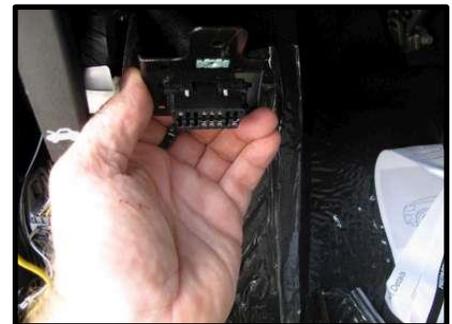
Figure E9



F. Front Cable Routing

1. Locate OBD and connect OBD extension cable (supplied) to OBD. **NOTE: This kit comes with 2 OBD extensions. One fits 2016, one fits 2017, and for 2018-19 you must direct connect to original OBD harness. Shown in the steps F2-6** (Figure F1)

Figure F1



2. If your OBD connector does not match the supplied extensions follow the next steps. Cut the purple and white wires from one of the extensions. Strip the ends of the cables and add male spade connectors. (Figure F2a-c)

Figure F2a



3. Locate the green and black wires on the back of the factory OBD connector (you can use the extension OBD harness as reference of the wire locations). Connect a T-Taps to each of the green and black wires. Connect the white wire to the green wire and connect the purple wire to the black wire. You may also use other types of connectors or solder the wires, whatever your preference. (Figure F3a-b)

4. Remount new OBD to OBD bracket using the original screws. Route CAN BUS cable over to foot well to be connected later. (Figure F4)

Figure F2b



Figure F2c



Figure F3a

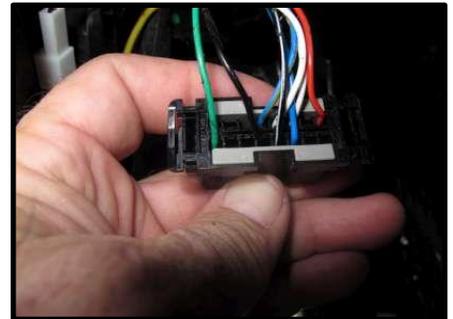


Figure F3b

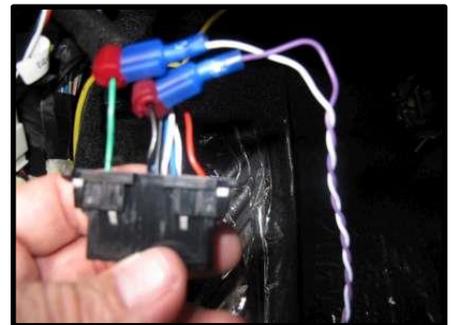
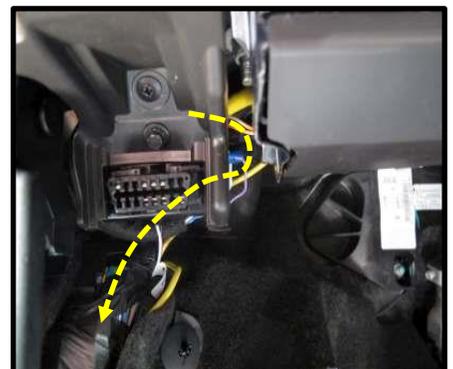


Figure F4



5. Drill using 16mm bit and install switch /cable 3140122001033 into lower dash trim panel



where indicated. **CAUTION: Drill bit is supplied**



for this switch, check size and clearance before drilling. (Figure F5a-b)

Figure F5a



Figure F5b



6. Install BUS Box to lower side wall with supplied double side tape. Route and plug in switch wires and OBD wires into BUS box. Connect BUS box cable to Main harness. (Figure E6a-b)

Figure F6a



Figure F6b



7. Locate Main power supply connector inside fuse box opening (Red-Black wires/ Blue connector). Connect X-large Tap connector (PBB580008100) to the Red wire. Screw Tap cover into place. Route cable and ground eyelet down to door sill. Connect ground loop eyelet to the factory studs shown. Connect power connector to main harness. (Figure E7a-e)

Figure F7a



Figure F7b

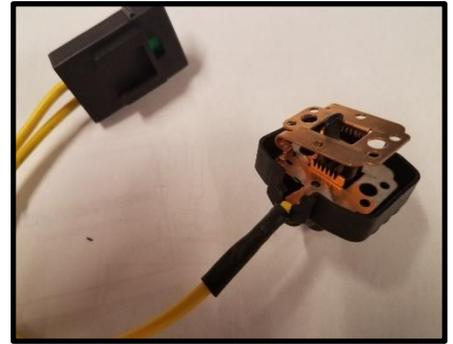


Figure F7c

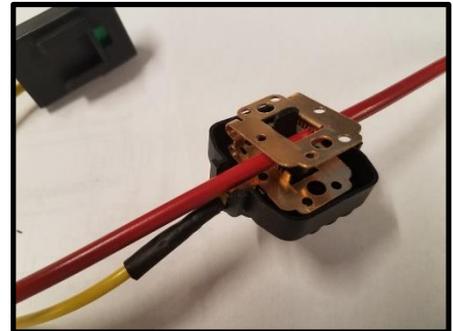


Figure F7d

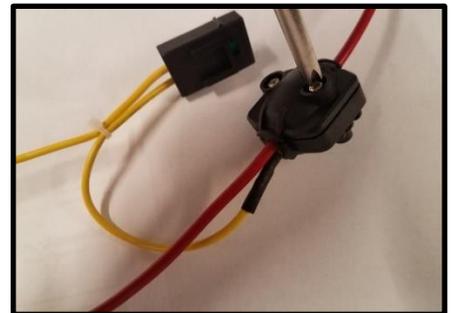


Figure F7e



Figure F7f



8. Drill 28mm hole where the previous pilot hole was drilled. This will allow for the nut of the switch to pass through the panel.

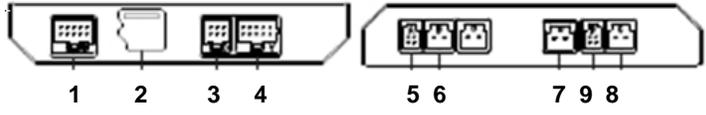


CAUTION: Drill bit is supplied for this hole, check size and clearance before drilling. NOTE: do not install switch permanently until after testing the system. (Figure F8a-b)

G. Control Box Connections

1. Attach harnesses per diagram and connector fit.

(Figure G1a-c)



- 1. Tailgate Button/Lock harness
- 3. Button/Buzzer Harness
- 5. Main Harness
- 6. Main Harness
- 7. Passenger Stay Bar Harness
- 8. Driver Stay Bar Harness
- 9. Driver stay Bar Harness

Figure F8a



Figure F8b



Figure G1a



Figure G1b



Figure G1c



2. Mount Control box permanently. Use wire ties to clean up all routing making sure cables do not rattle or interfere with any other vehicle parts or operation. (Figure G2)

3. Before replacing Tailgate trim, connect rear button to proper wire for testing.



4. IMPORTANT: Manually close the tailgate door to initialize the Power Lift Gate System. Function test the System to verify proper operation as follows.

G. System Testing

1. With tailgate in the closed position, push the front button to open and close the liftgate.
2. Open tailgate using rear outer factory button.
3. Close tailgate using rear inner button.
4. With Keyless Remote, press unlock button 3 times to open or close liftgate.
5. Check safety Intelligent anti-pinch. Close liftgate using button, put obstacle in path of closing door. Door will automatically stop and reverse position.

Figure G2



H. System Adjustments

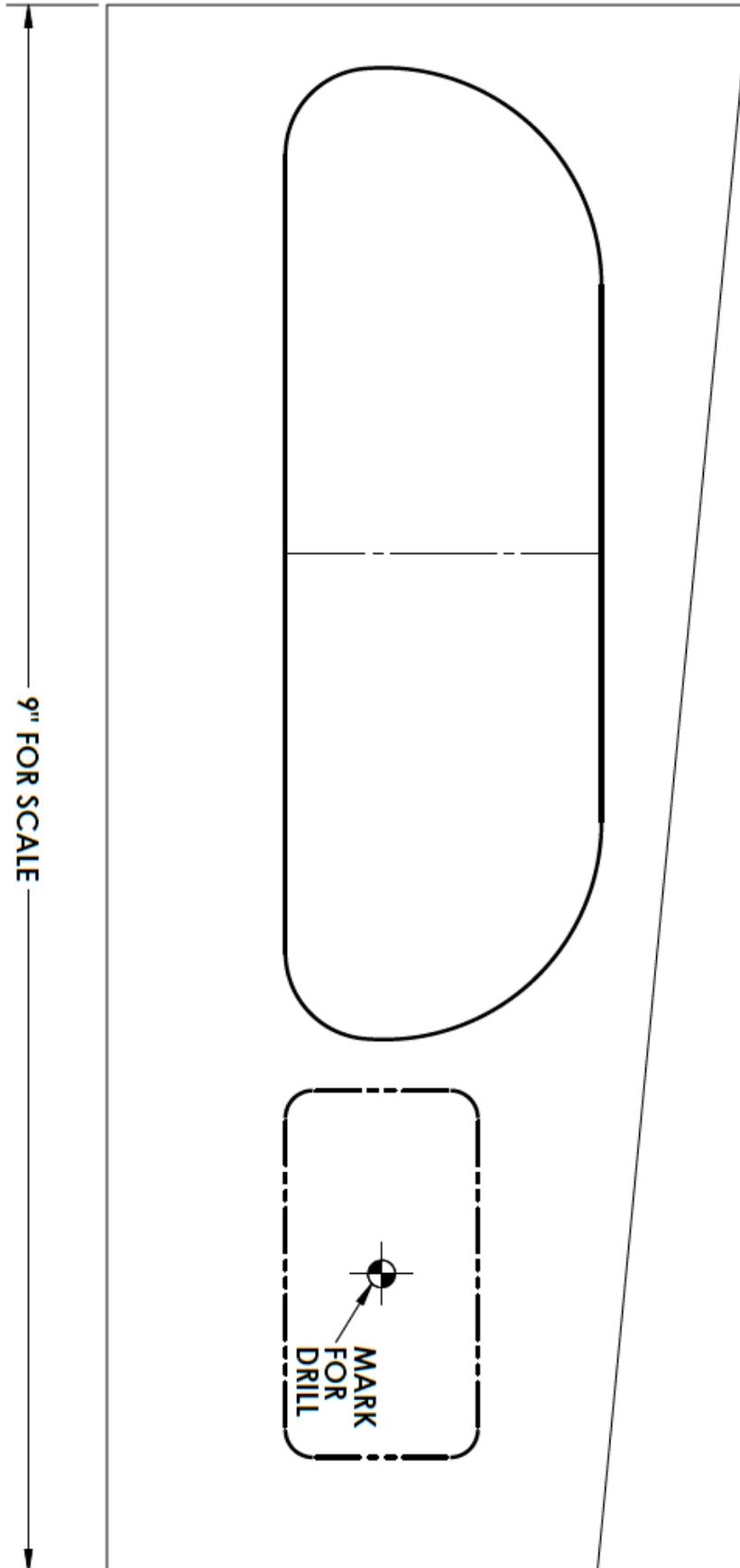
- 1. Height Adjustment:** Manually adjust tailgate to preferred height. Press and hold inside **TAILGATE BUTTON** until system beeps 2 times, then release. Cycle system to verify height adjustment.
- 2. Speed Adjustment:** Press and hold inside **TAILGATE BUTTON** until system beeps 5 times, then release 10 quick beeps= fast, 1 long beep=slow (default)
- 3. Video of adjustments available on YouTube @ <https://www.youtube.com/watch?v=HZY5rlysk4Y>**

H. Reassemble Trim and Complete Installation

- 1.** Re-install rear tailgate trim panel with rear button installed
- 2.** Re-install all other trim panels previously removed.
- 3.** Check all previously disconnected factory connectors and accessories to ensure they are all connected and operational.

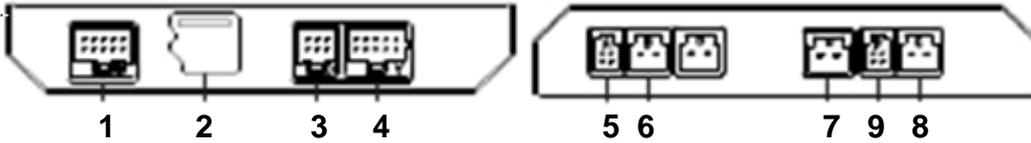
**For Customer or Technical support please call VOXX Support:
1-800-645-4994
9 AM – 6 PM (EST -Eastern
Monday - Friday**

TEMPLATE: Rear Liftgate Button Position



CHEVROLET / EQUINOX - BUICK / ENCORE 2018 SMART ELECTRIC TAILGATE LIFT SYSTEM

HARNESS CONNECTIONS:



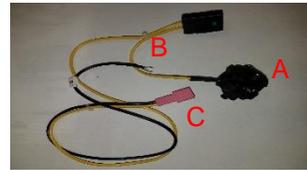
POWER WIRE

- A. Connect to Control box port. -5
- B. Connect to Control box port. -6
- C. Connect to BUS box wire -D
- D. Connect to Power supply unit -B
- E. Ground



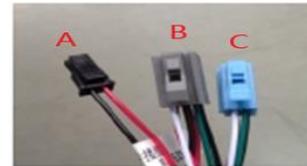
POWER SUPPLY UNIT

- A. Power out
- B. Ground
- C. Connector joint power wire -A



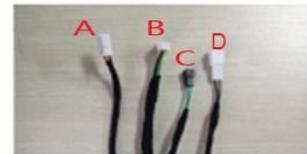
REAR BUTTON WIRE

- A. Buzzer -A
- B. Control box port -3
- C. Rear button port



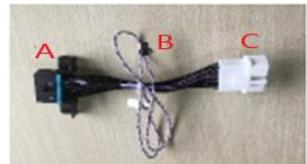
BUS BOX WIRE

- A. Front button terminal
- B. Connect to BUS box
- C. Connect to communication -C
- D. Connector joint power wire -B



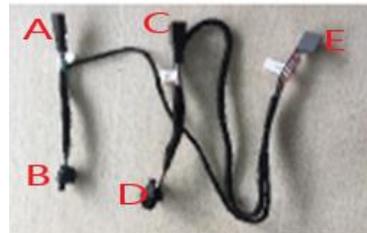
OBD ADAPTER

- A. OBD out
- B. Connect to BUS box wire -C
- C. OBD in



LOCK CONTROL WIRE

- A. Tailgate button in
- B. Tailgate button out
- C. Lock control in
- D. Lock control out
- E. Control box port -1



ELECTRIC STRUT

- A. Connect to Control box port -8-9
- B. Connect to Control box port -7



Buzzer

- A. Connect to Rear button wire -A

