

Locksmith & Unlock Cable

Installation Instructions



*2019+ Chevrolet Silverado & GMC Sierra
with 5.3L/6.2L Gas Engine*

▲WARNING: *Failure to follow the ECM and TCM Unlock Cable instructions in the proper order may result in damage to the vehicle, device, and included hardware. Please refer to all included instructions.*

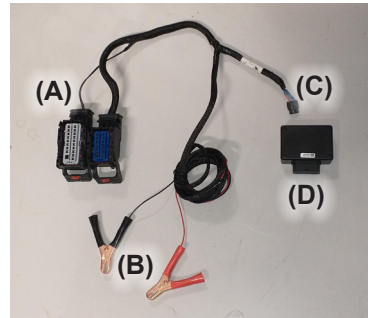
Use of a battery charger is strongly recommended!

Do not drive your vehicle with the Unlock Cable in place!

E90 ECM Unlock Cable Instructions

Unlock Cable Part Reference:

- (A) ECM Connectors
- (B) Battery Clips
- (C) E90 Unlock Cable
- (D) Locksmith Unlock Module



Required Tools:

- T15 Torx or Hex Driver

NOTE: This kit includes multiple unlock cables. Locate the E90 Unlock Cable pictured below, which has two ECM connectors (A), colored blue and gray. You will use the same Locksmith Unlock Module (D) with both cables.

For your vehicle to accept tuning, you must perform a one-time unlock process on the Engine Control Module. With this Unlock Cable kit, you are able to unlock your own ECM using your tuning device without having to remove the ECM from the vehicle or ship it to us. Once the unlock is completed, you do not need to use the cable to install tunes or modify options, and will not need the unlock cable anymore.

STEP 1 - Before installing the Unlock Cable, make sure you have plugged your tuning device into the vehicle and attempted to tune. The tuning device will prompt you to update. After updating, connect to the vehicle and attempt tuning again. This time the tuning device will direct you to install the Unlock Cable.

STEP 2 - To connect the Unlock Cable, you must access the ECM. The ECM is located behind the felt liner in the front driver side wheel well. Park the vehicle and steer to the left (but not to full lock) to make room to access the ECM, then shut off the vehicle. Wait 5 minutes before continuing to allow the vehicle to fully shut down.

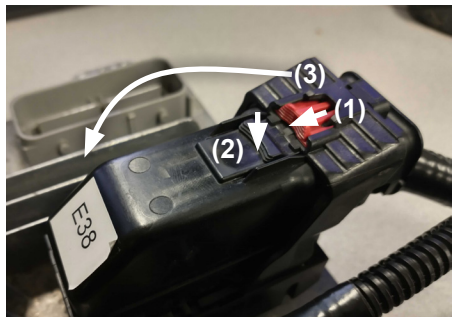
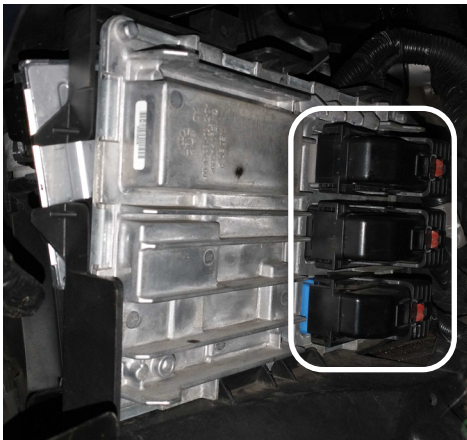
E90 ECM Unlock Cable Instructions Cont'd

NOTE: Do not steer left to full lock during step 2. After steering to the left, unsteer slightly to ensure that steering is not at full lock. Our testing has shown that leaving the wheel at full lock to the left may cause the steering wheel lock to bind and cause a no-start condition. If this happens to you, please refer to Troubleshooting section.)

STEP 3 - Using the allen wrench/hex driver (i), remove the indicated eight screws. One of them will be just a push pin that will pop out when pulled. Keep the screws and push pin for reinstallation. From the front of the wheel well, pull the felt liner back and towards the vehicle to expose the ECM.



STEP 4 - Remove the three connectors from the ECM. Each of them has a red tab (1). Slide the red retention tabs back to unlock each connector. Once the red tabs have been released, press the black tabs (2) down into the connector to release the locking clamps. Rotate the locking clamps (3) all the way back to release the connectors.



E90 ECM Unlock Cable Instructions Cont'd

STEP 5 - Take the E90 Unlock Cable. Attach both of its gray and blue ECM Connectors (A) to the top and bottom connector sockets on the ECM. Close their locking levers (3) until they click. The middle connector socket (black) will be left empty.

STEP 6 - The unlock cable battery clips (B) must clip onto the vehicle's battery terminals. Therefore, open the engine bay hood. Route the Unlock Cable out of the wheel well, over the driver side fender, then across the whole engine bay so that the clips (B) reach the battery on the passenger side.



STEP 7 - Slide open the red positive cover on the battery. Clip the red (positive) battery clip (B) onto the tab underneath the red cover. Clip the black (negative) battery clip (B) onto a nearby ground stud such as the one pictured to the right.

NOTE: Do not clip the black battery clip onto a bolt, as the bolts have a coating that prevents a good electrical connection. Use the stud.

STEP 8 - Go back to the wheel well. Connect the Locksmith (D) to the dangling Unlock Cable small plug (C).

E90 ECM Unlock Cable Instructions Cont'd

STEP 9 - Connect the tuning device to the Locksmith's OBD port (D). It will power on. Select Tune, follow the instructions onscreen to begin the unlock. When it completes you will be directed to remove the Unlock Cable.

UNLOCK CABLE REMOVAL - Disconnect battery clips (B) from the vehicle's battery. Disconnect the two Unlock Cable ECM connectors (A) from the ECM. Reconnect all three of the original vehicle's ECM connectors back onto the ECM. Close their locking levers (3) until you hear them click, then slide in their red retention tabs (1).

If you have an 8-speed or 10-speed transmission:

You will be unlocking the transmission next. Do not reinstall the felt liner yet. Instead, proceed to the T93 Transmission Unlock Cable Installation Instructions.

If you have a 6-speed transmission:

You are done using the unlock cables. Place the felt liner back into its place in the wheel well, and reapply the eight screws. Test that the truck starts, and then connect the tuning device to the vehicle's OBD port. You may now start tuning.

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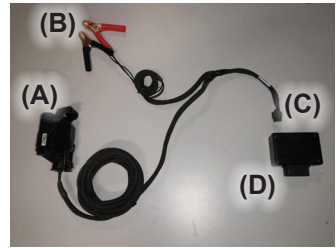
Use of a battery charger is strongly recommended!

Do not drive your vehicle with the Unlock Cable in place!

T93 Transmission Unlock Cable Instructions

Unlock Cable Part Reference:

- (A) TCM Connector
- (B) Battery Clips
- (C) T93 Unlock Cable
- (D) Locksmith Unlock Module



Required Tools:

- T15 Torx or Hex Driver
- 10mm Deep 6pt Socket and Ratchet

For your vehicle to accept tuning, you must perform a one-time unlock process on the T93 Transmission Control Module. With this Unlock Cable kit, you are able to unlock your own TCM using your tuning device without having to remove the TCM from the vehicle or ship it to us. Once the unlock is completed, you do not need to use the cable to install tunes or modify options.

STEP 1 - These instructions assume that you have completed the E90 Engine Unlock Cable Instructions, and currently have the felt liner in the driver side wheel well removed. If not, please redo Steps 1-3 of the E90 ECM Unlock Cable Instructions.

STEP 2 - The TCM is on the other side of the plastic mounting bracket that the E90 ECM sits in. To swing out the mounting bracket to access the TCM, remove the three indicated bolts with your socket and wrench (ii). One of the bolts is on the underside.



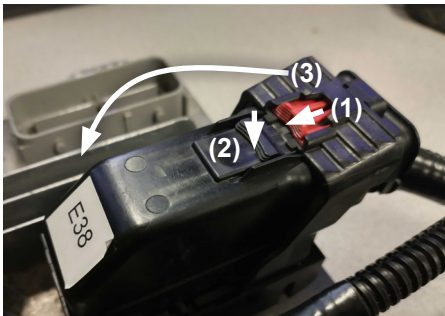
T93 Transmission Unlock Cable Instructions Cont'd

STEP 3 - With the bolts removed, the whole ECM mounting bracket will be free to move. Swing it right to expose the TCM.



STEP 4 - Disconnect the vehicle connector from the TCM. Slide the red retention tab (1) back to unlock the connector. Press the black tab (2) down into the connector to release the locking clamp. Rotate the locking clamp (3) all the way back to release the connector.

STEP 5 - Take the T93 Unlock Cable. Attach its TCM Connector (A) to the TCM's connector socket. Close the connector's locking clamp (3) until it clicks.



STEP 6 - With the Unlock Cable connected to the TCM as pictured to the right, route the cable out of the wheel well and up to the vehicle's battery on the passenger side of the vehicle. Route the cable in the same way as Step 6 in the E90 ECM Unlock Cable Instructions.

STEP 7 - Connect the Unlock Cable battery clips (B) to the vehicle's positive battery terminal and a ground stud, in the same way as Step 7 in the E90 ECM Engine Unlock Cable Instructions.

T93 Transmission Unlock Cable Instructions Cont'd

STEP 8 - Go back to the wheel well. Connect the Locksmith (D) to the dangling Unlock Cable small plug (C).

STEP 9 - Connect the tuning device to the Locksmith's OBD port (D). It will power on. Select Tune, follow the instructions onscreen to begin the unlock. When it completes you will be directed to remove the Unlock Cable.

UNLOCK CABLE REMOVAL - Disconnect the Unlock Cable battery clips (B) from the vehicle's battery. Disconnect the Unlock Cable TCM connector (A) from the ECM. Reconnect the original vehicle's TCM connector back onto the TCM. Close its locking lever (3) until you hear it click, then slide in its red retention tab (1).

Push the ECM/TCM plastic mounting bracket back into place. Reinstall the three bolts, and make sure to tighten them to spec.

Ensure that the ECM's connectors are also installed, test start the vehicle. If the engine starts and the vehicle does not tell you to shift to park, the ECM and TCM are successfully reconnected. Shut off the vehicle.

You may now place the felt liner back into place and screw the eight felt liner screws back into place. After this, the vehicle is fully reconnected and you may now connect the tuning device to the vehicle's OBD port and tune!

Troubleshooting

If your vehicle will not start, and the steering wheel will not unlock when pressing the ignition button, this means you steered too far during the ECM Unlock. Turn off the ignition, then jerk the wheel counterclockwise while pressing the ignition button. This should unbind the steering wheel and the truck should now start.

If your vehicle's gauge cluster tells you "Shift To Park" even though you are in park, check that all connectors have correctly been reinstalled, both on the TCM (one connector) and the ECM (three connectors).

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Do not drive your vehicle with the Unlock Cable in place!

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For additional questions not found in the user guide, call:

Holley Technical Support: (888)-360-3343

Mon - Fri 8:00 am - 5:00 pm MST, Sat 8:00 am - 2:00 pm MST

To expedite your support call, please have your Vehicle Information, Part Number, and Serial Number ready prior to calling Technical Support.

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