# Interior

- bTres
- MMI - SSD Swap
- Auto Hold Retrofit
- MMI Locked Flash with Apple Car Play
- Switched / Unswitched Fuse Location

# bTres

Product Link: bTres

> Sync your bTres by sending your tuner your bTres code.
> Your tuner will tell you what parameters to activate for logging files being sent direct to them.

# MMI - SSD Swap

> Original by GilliamOS

Upgrading to a Solid State Drive (SSD) in your car's Multimedia Interface (MMI) is not only feasible but also offers a stable and moderately easy solution, despite being somewhat time-consuming.

This guide will briefly cover the DIY process, assuming familiarity with removing the MMI, using CloneZilla (or a similar tool), and not focusing on increasing the drive's capacity. For those interested in expanding capacity, other detailed guides are available, but be warned, it's a challenging endeavor.

> If you're not comfortable with disassembling components, cloning drives, or similar tasks, this guide might not suit you. It's advisable to seek assistance for these steps.

The goal here is to replace the original hard disk drive (HDD) with a solid-state drive (SSD). The benefits are significant, including faster performance, reduced heat generation, and increased stability due to the absence of moving parts. Throughout my experiments, one combination of components has proven to match the original drive's stability while being cost-effective.

Recommended Parts:

1. Transcend 64GB mSATA Drive (Qualified for 0°C to 78°C)
   or
   Swissbit 60GB industrial-grade mSATA drive (For wide temperature ranges, qualified for -40°C to 85°C)
2. mSATA to IDE Adapter
3. Vantec IDE/SATA to USB adapter (for cloning the MMI drive)
4. mSATA to USB Adapter

Installation Steps:

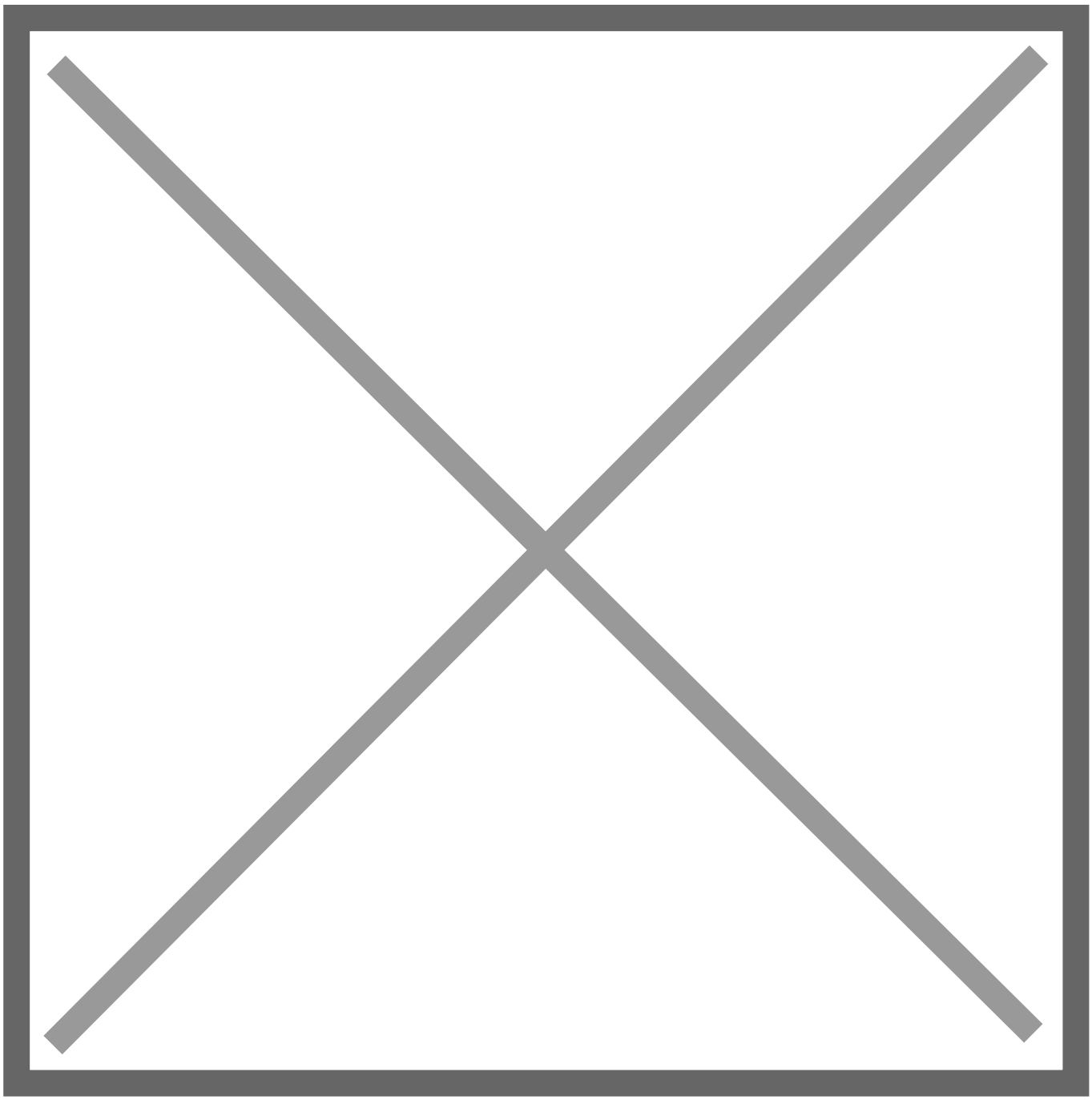
1. Remove the HVAC controller, connectors, 8mm bolt, and the MMI unit from the car.
2. Unscrew the three screws labeled "H" on the bottom of the MMI and all screws on the top. Carefully pry the top off.
3. Keep track of the screws' locations as they come in three different lengths.
4. Lift and set aside the DVD drive, whether connected or not.

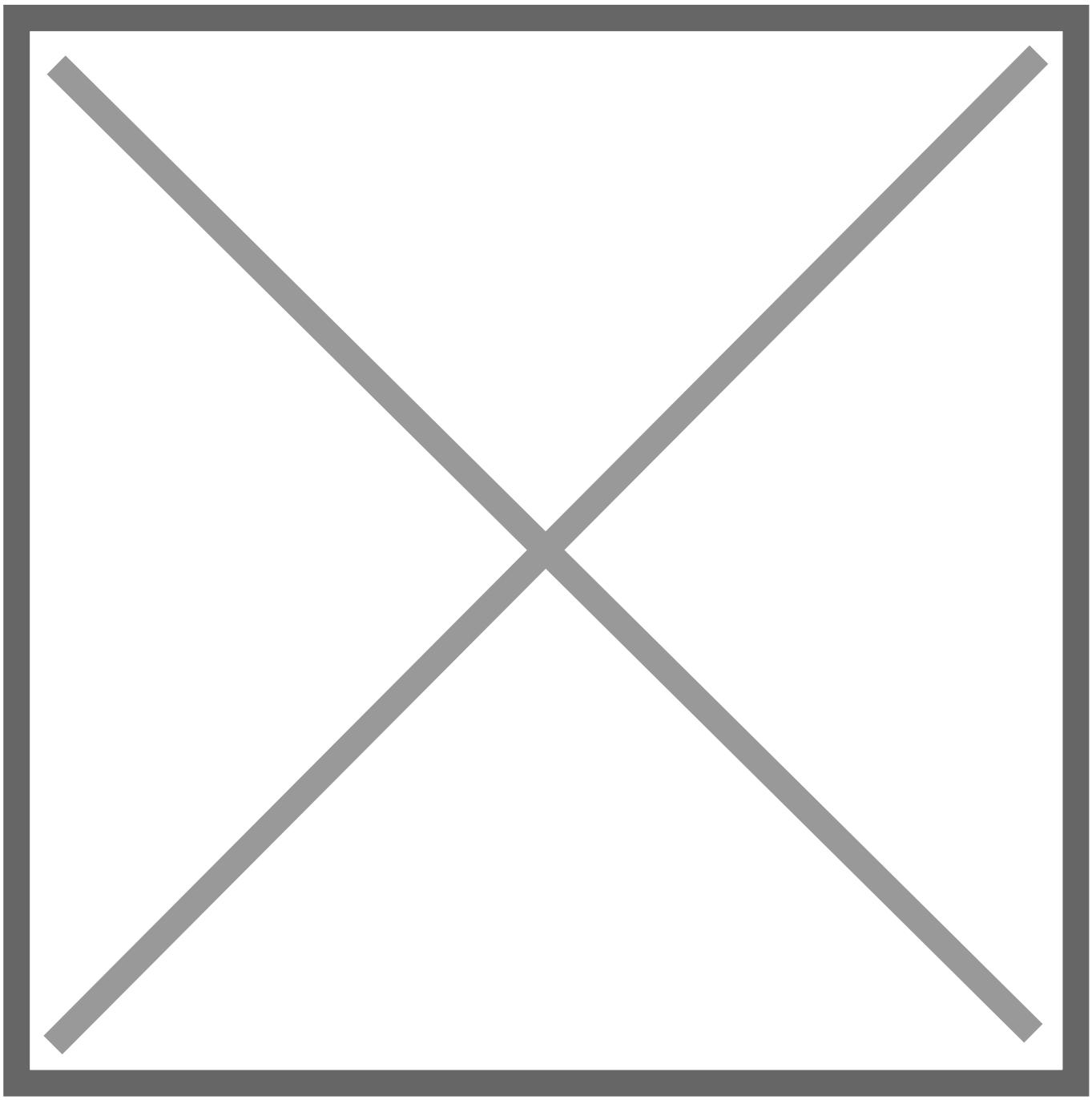
5. Slide the middle clip between the two ribbon connectors back and under the HDD, then lift the sled out from the connector end.
6. Detach the right-angle connector from the drive and set it aside.

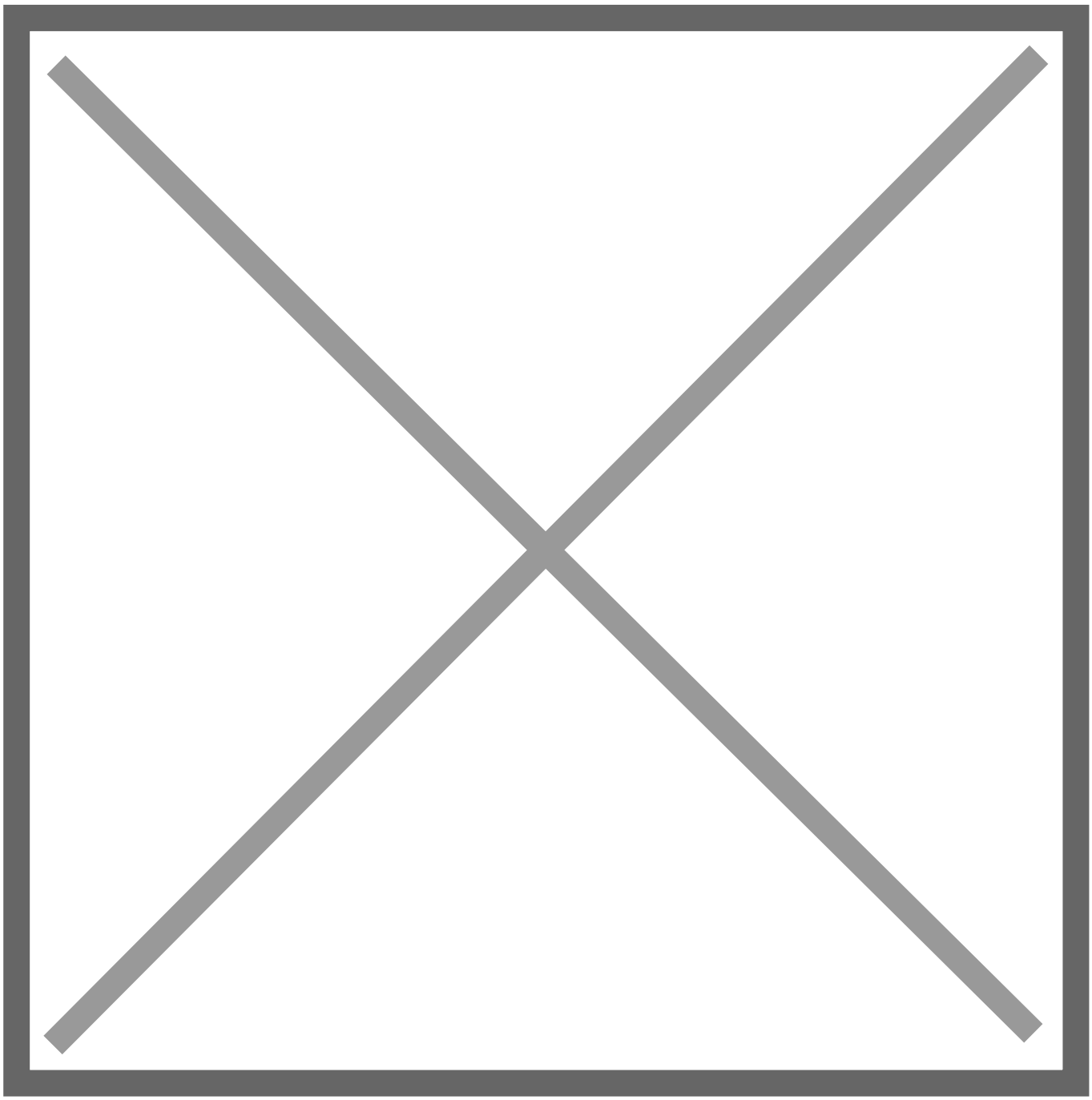
For cloning:

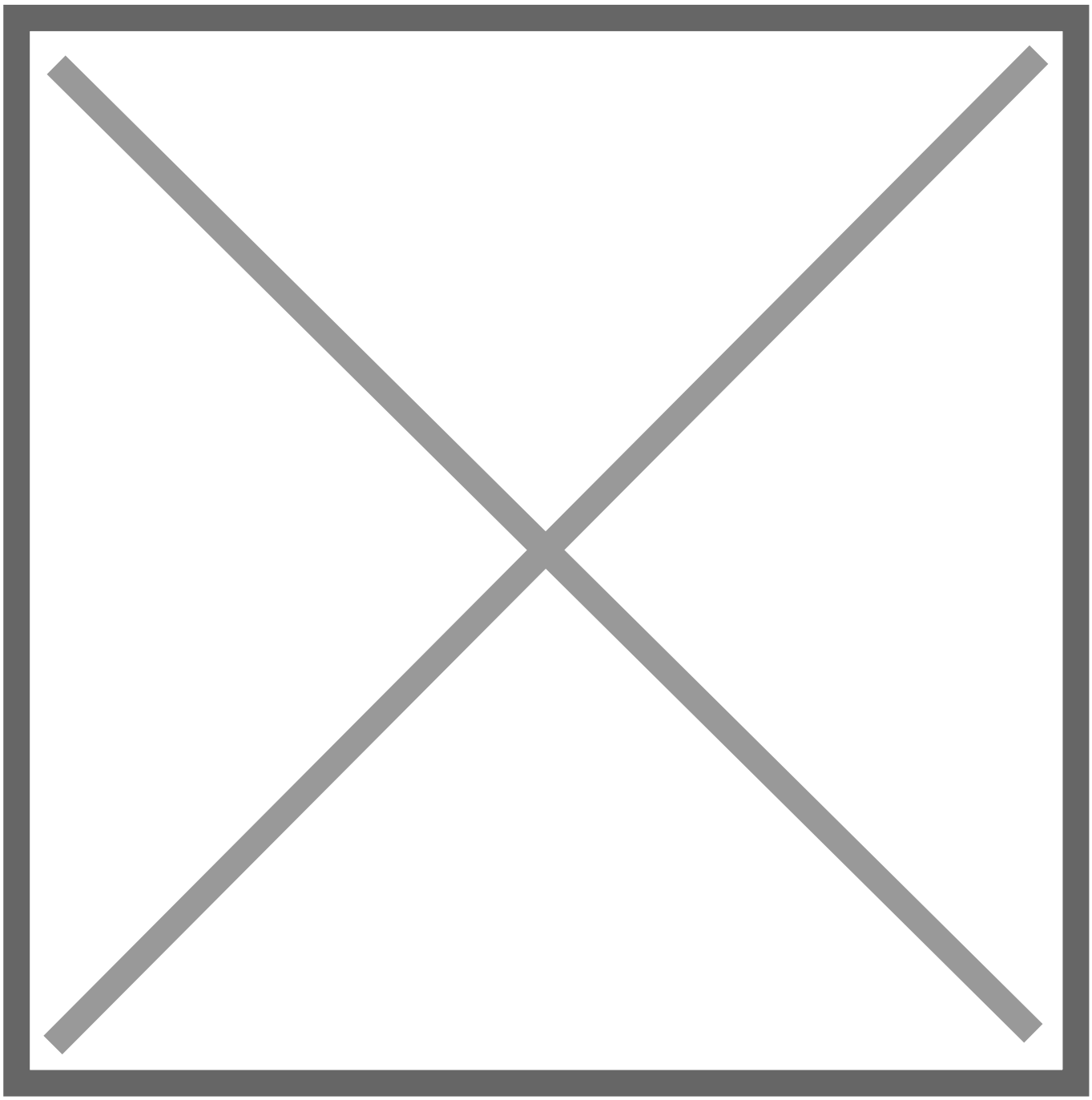
1. Connect the drives and clone or image the original drive using your preferred tool and method. I recommend CloneZilla for creating a backup image.
2. Install the cloned mSATA drive into the adapter, attaching the right-angle connector last.
3. Place the adapter and sled back into the MMI and secure with screws.
4. Reconnect all connections, including the previously removed bolt.
5. Reinstall the HVAC controller.

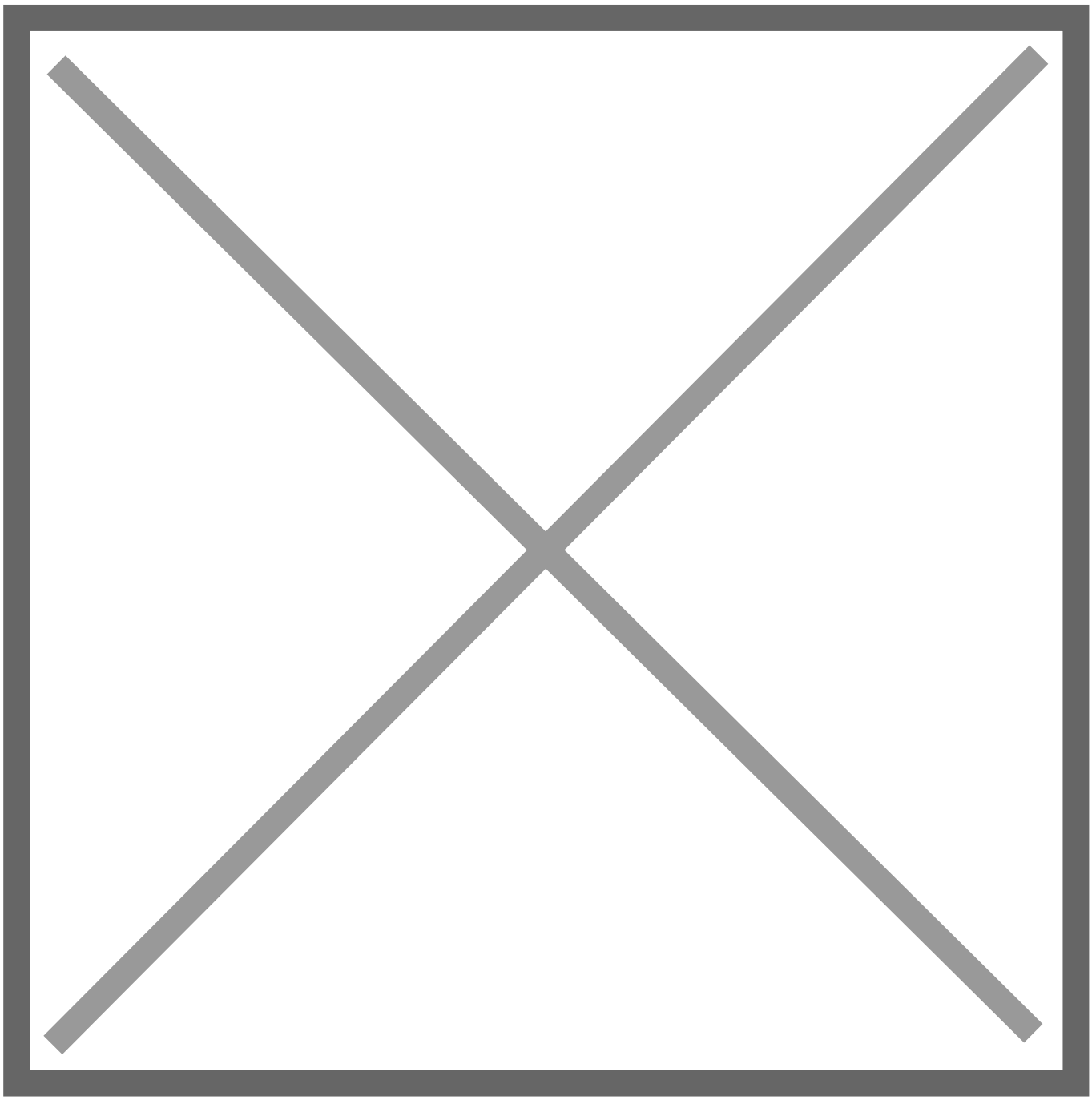
> Upon turning on the car, the MMI should boot up immediately and operate as usual. It's likely that numerous codes will be stored across the car's controllers; use your preferred scanner to clear these codes. This upgrade significantly improves performance and longevity, making it a valuable enhancement for your vehicle.

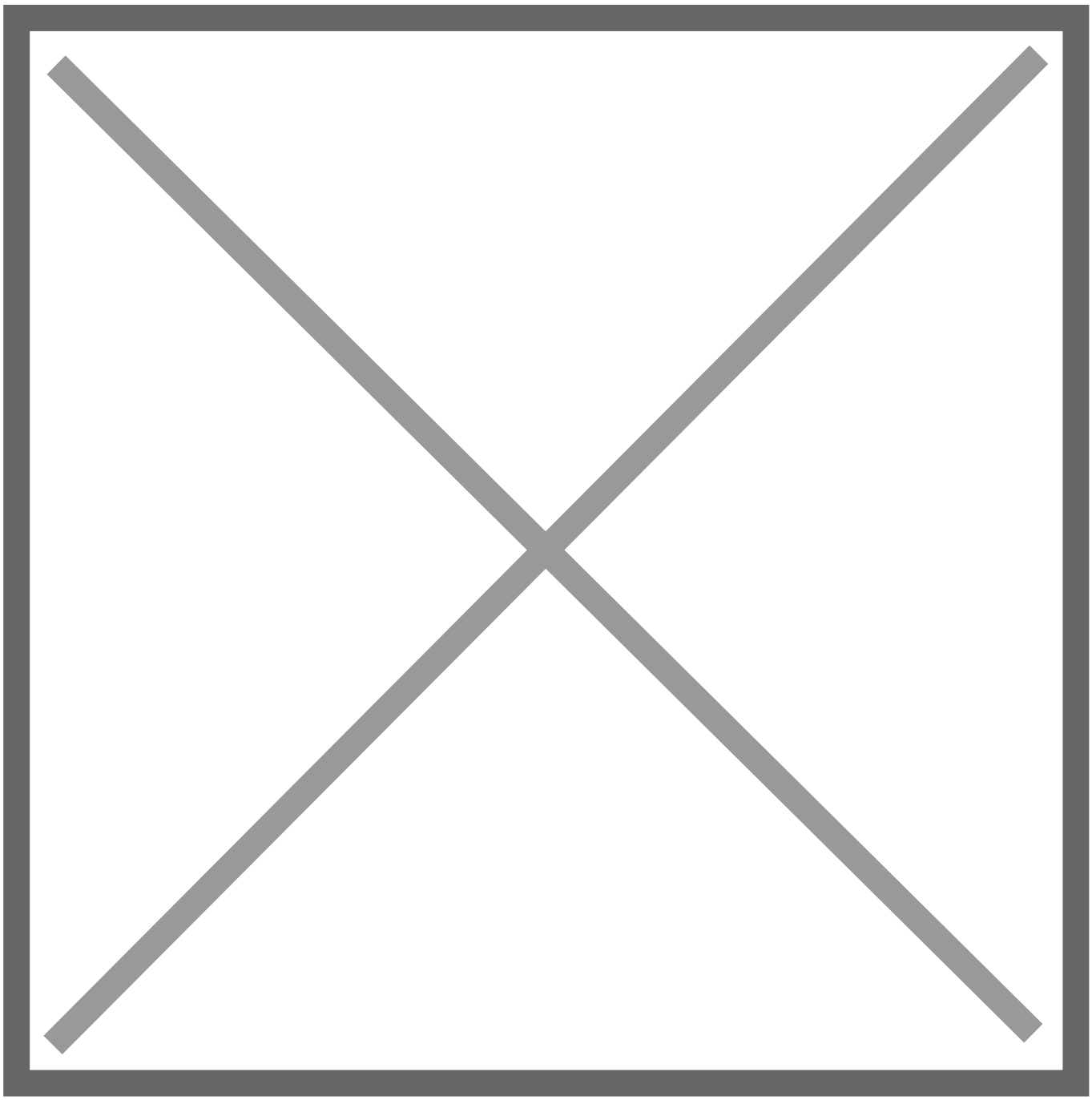


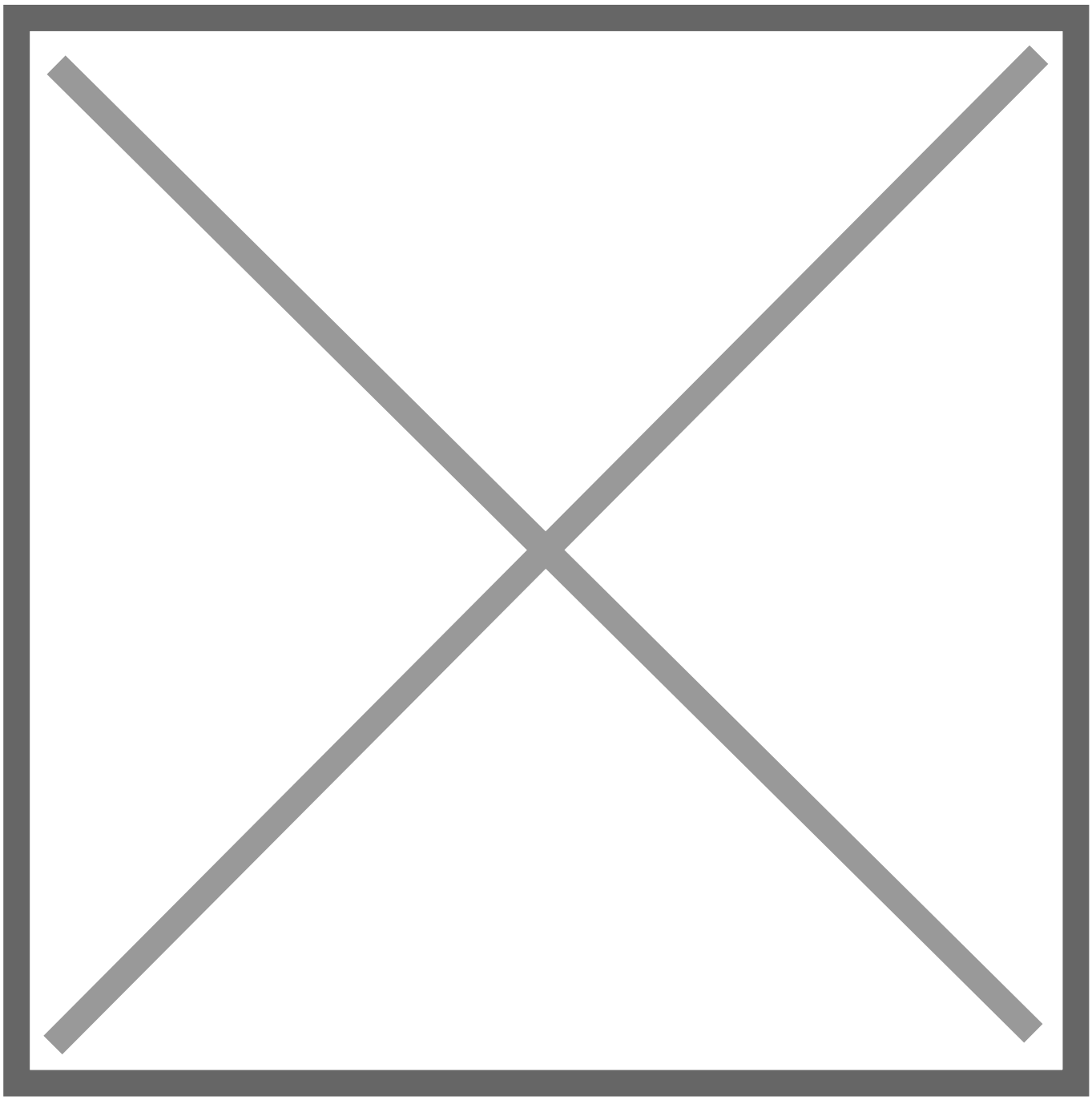












# Auto Hold Retrofit

No need to run wires all the way to the ABS unit from the center console. All 4GX comes with this wiring factory installed. Nevertheless, note that this was done to 1AT PR code ABS module. **If you have 1AS ABS module, it may still work, but it may stress your ABS unit slightly more.**

**Example ABS Control Unit Part Numbers:**
SW: 4G0 907 379 G
HW: 4G0 907 379 G
Component: ESP PREMIUM H09 0250

**Part Required:**
4G927225B (OEM)

**Software Required:**
VCDS

We recommend an OEM part, even if used. The aftermarket ones that we've found tend to not match the original interior colors and/or LED color.

Procedure

1. Use an interior tool to remove the leather interior trim upwards around the shifter.
2. Lift MMI console by using two interior tools at the top half and pulling backwards towards you while you lift up.
3. There are three tabs on the original switch that need to be released to push it from the bottom towards the top of the panel.
4. Insert 4G927225B
5. Reconnect connectors
6. Reassemble
7. Use VCDS
8. Select Address 03 (ABS)
9. Access authorization -> Enter Access Code **61378** or **S11820**
10. Long Coding Helper -> Byte 8
11. **Use the call out below to change this byte to the proper value.**
12. Turn your car off and back on
13. Clear DTCs via VCDS or OBD11

**DO NOT JUST PASTE THE BELOW ABS CODING TO YOUR ABS CODING.**

**Calculating Byte 8's Value:**
For our example, the original ABS long coding we'll use is:
44A70F0122E5F0804**B**00
**4B** near the end is **Byte 8** (as they start at 00)
*(See below table)*

*https://www.binaryhexconverter.com/hex-to-binary-converter*

| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|---|
| 44 | A7 | 0F | 01 | 22 | E5 | F0 | 80 | **4B** | 00 |

The 8th byte in this case, 4B is binary for **0100**1011
By changing the first four digits to **1001**1011
The converted binary 10011011 to HEX is **9B**
So, our new long coding would be:
44A70F0122E5F080**9B**00
*(See below table)*

*https://www.binaryhexconverter.com/hex-to-binary-converter*

| 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|---|
| 44 | A7 | 0F | 01 | 22 | E5 | F0 | 80 | **9B** | 00 |

**DO NOT JUST PASTE THE ABOVE ABS CODING TO YOUR ABS CODING.**

https://www.youtube.com/embed/7cc_cWM400c

# MMI Locked Flash with Apple Car Play

Original by MyDimeIsUp

If you've seen my previous thread, I was planning to update my MMI. Unfortunately, things did not go as planned. I used thenavman to obtain my files and began updating to K0942_3. However, during the process, I encountered an error: "Error communicating with device KBD_FC7:0."

I can press the MMI knob down but cannot scroll to cancel the update. The only option I can select is "Retry," which consistently results in the same error. I have tried using a different SD card and restarting the MMI, but neither solution has worked. The MMI will not turn off since the update is neither completed nor canceled, which may result in my battery draining completely.

I have contacted thenavman, but as it is nearing closing time in the UK, I do not expect a response until tomorrow. I am posting here to seek any suggestions or ideas from the community.

**Update:** I realized that my CarPlay was aftermarket, which I had become so accustomed to that I considered it a part of the car. I removed the MMI, disconnected the piggybacks and quadlock piggyback, and reinstalled the cables directly into the MMI. I retried the update, and it completed successfully. After reinstalling my CarPlay box, everything worked without issues.

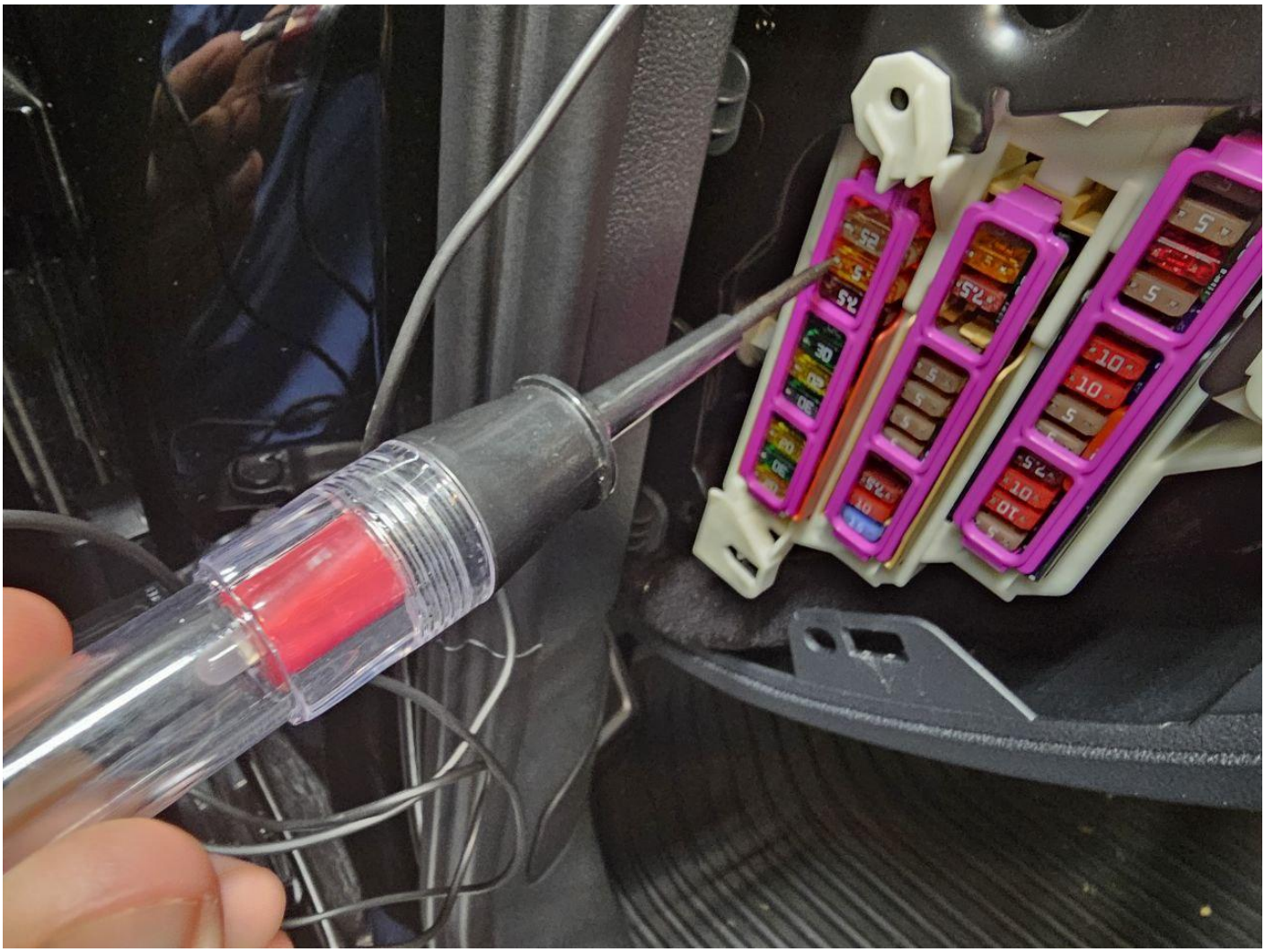
This information might be relevant for those using RSNav, as my CarPlay is from AliExpress but utilizes similar piggyback connections. I am sharing this experience to assist anyone with aftermarket CarPlay/RSNav systems.

# Switched / Unswitched Fuse Location

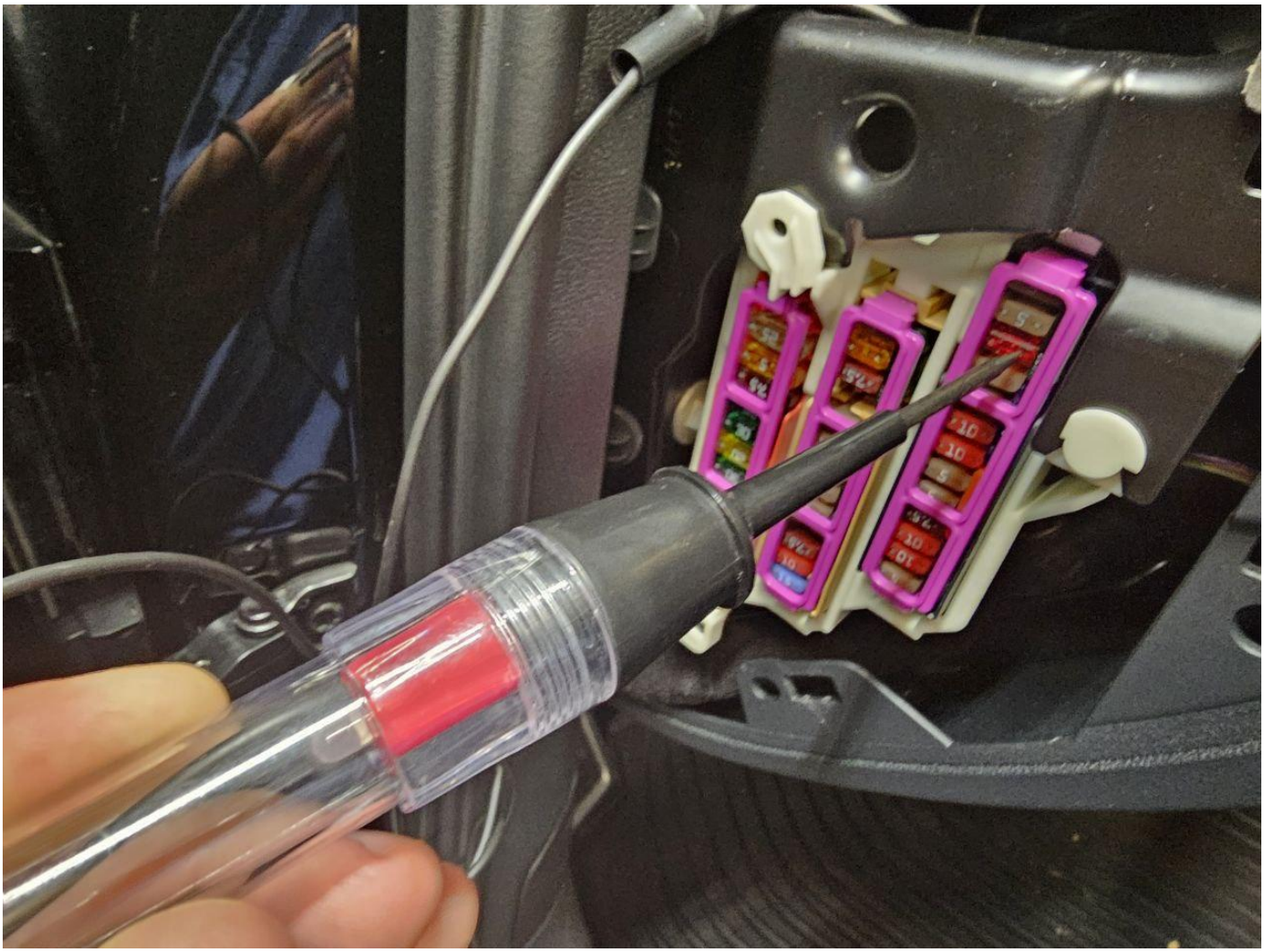
If you're looking for a location to use a switched fuse on the S6/S7, look below:

## Switched Location:

Panel B, ST1

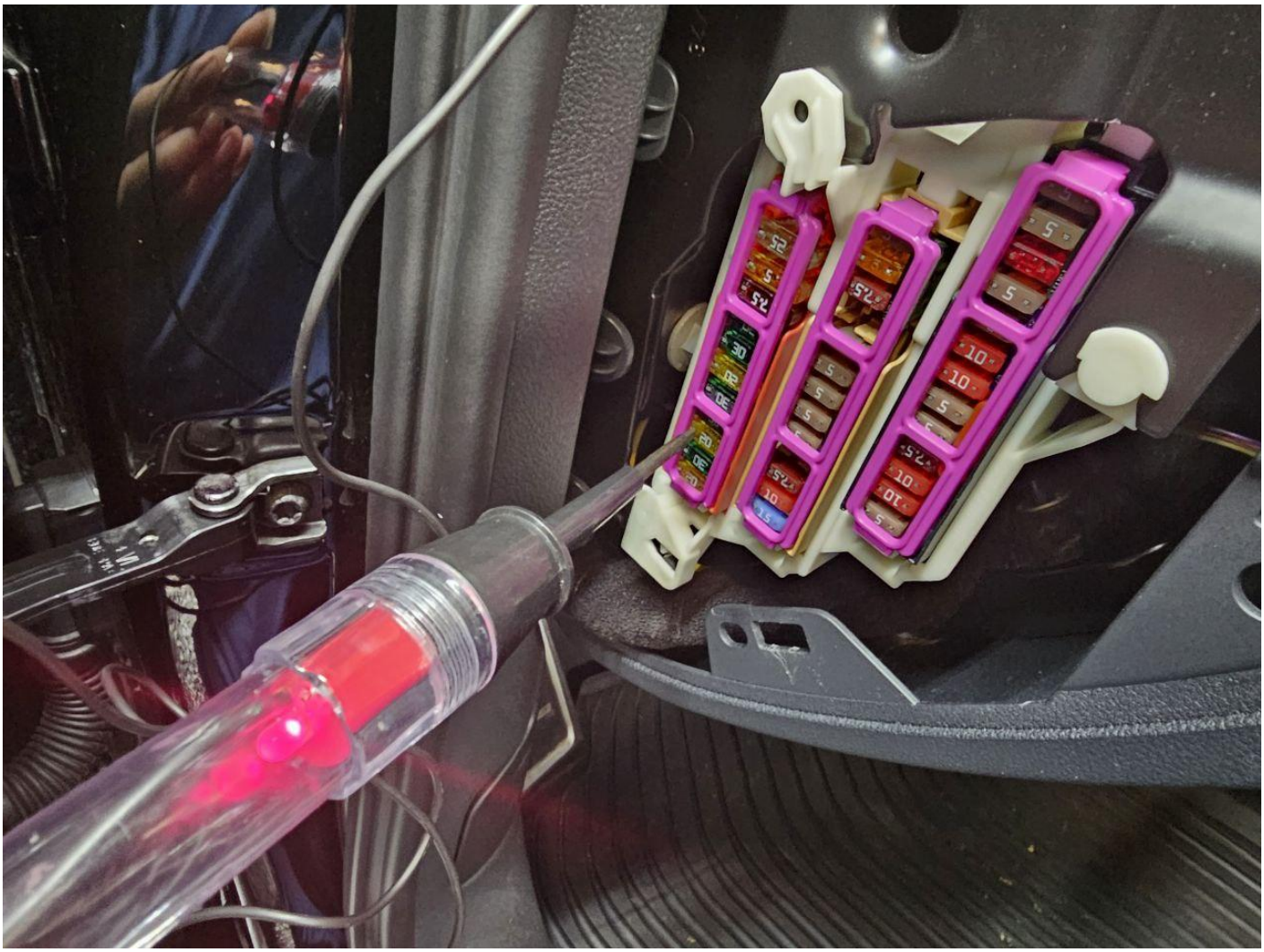


Or top portion of Panel B, ST3



This entire row is switched.

## Unswitched Location:



Credit: John & Manny