

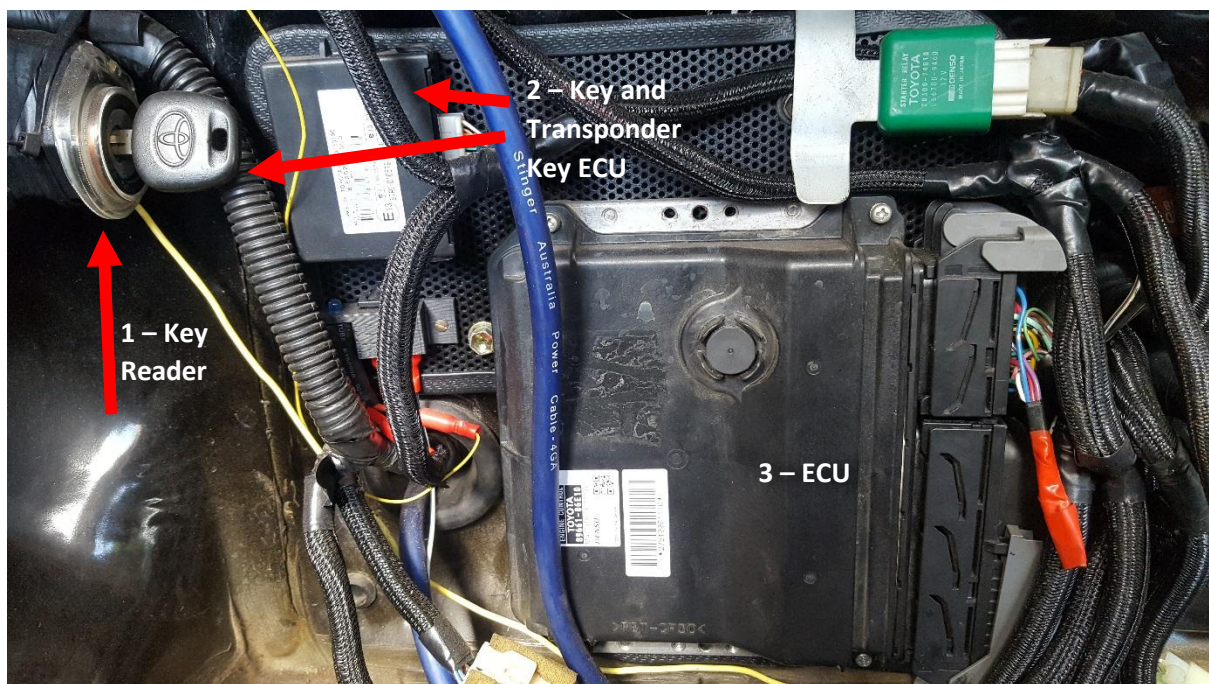
Immobiliser Sync for 2010 and earlier Camry/Aurion ECU

This is a guide to help you synchronize a 2006-2010 Camry/Aurion ECU (including TRD aurion) to an immobilizer from a different car of the same application. There is no region lockout a Camry immobilizer can be used in an Aurion and vice-versa.

What you will need:

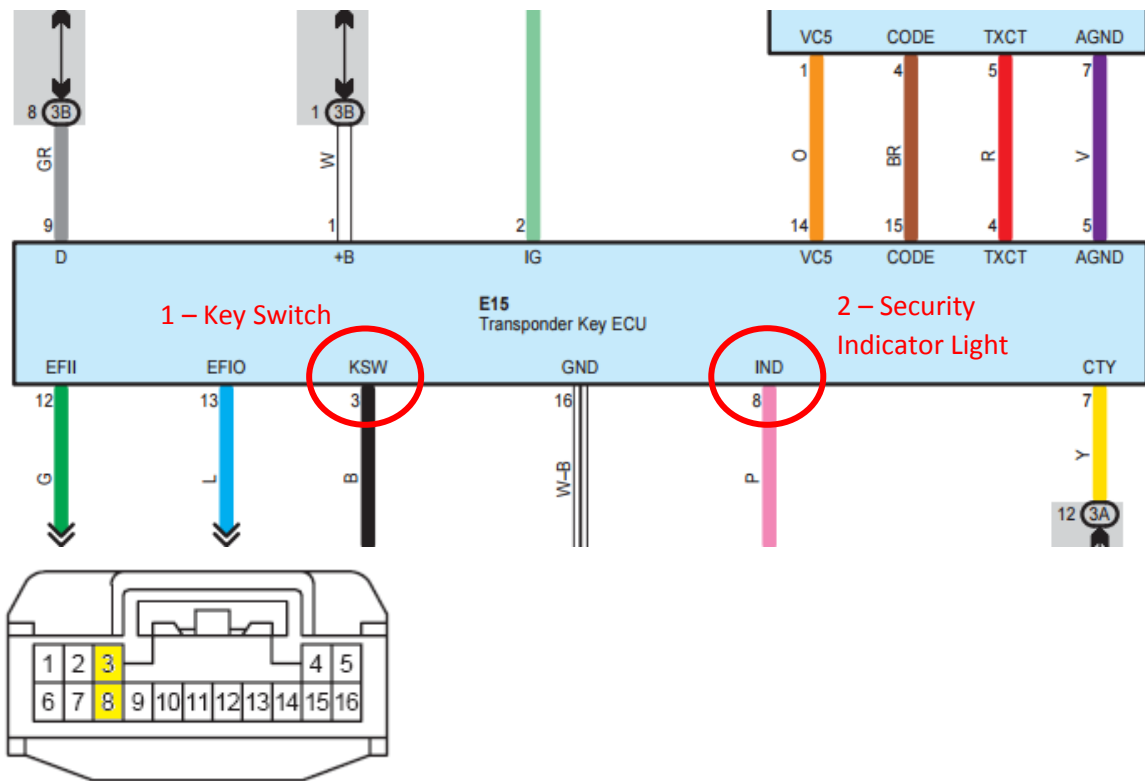
1. Key reader (ring that goes around ignition barrel)
2. Key and Transponder Key ECU (matched pair)
3. ECU from above applications.

Below is a photo of how I mounted my ECU and accessories. I used a piece of sliding door security mesh.



It's expected that your wiring is completed but there are a few simple modifications you can do to make your life easier with syncing the immobilizer ECU.

1. Add a switch to your KSW Wire. As this goes to earth, the switch allows you to quickly trick the ECU into believing the key is inserted or removed (More on this further)
2. Hook up the security indicator light. Any generic LED will do the trick, with the negative simply going to earth. I recommend mounting this in the trunk as you will probably need it more there.



The photo below shows my key switch and security indicator LED



In my attempts to sync my ECU originally, I found that the ECU is 'smart'. If you insert or put the key next to the key reader with the key switch off, the ECU won't read the key. It is expecting a small delay, not shorter than a second.

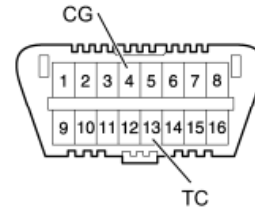
The process for inserting the key is as follows:

1. Turn Keys switch off and remove key from area around the key reader
2. Turn the MR2 ignition to ON, do not start the car
3. Return to the trunk and turn the key switch on
4. Insert the key or tape to the key reader, your choice

The Sync Process:

Syncing the ECU's is quite easy and takes about half an hour. The cars ignition will be switched on for 30-32 minutes so put the car on a charger or take any fuses out to stop excessive battery drain from ignition powered items, particularly the electric power steering fuse. You will need to use a timer for this process.

1. Before turning the cars ignition on, make sure the key is out of the reader and the key switch is off.
2. Bridge pins 4 and 13 on the OBD plug
3. Turn the MR2 ignition ON, do not start the car
4. Return to the trunk, turn the key switch on and insert or tape the key to the reader. Start your timer for 30 minutes
5. A few seconds after the alarm on your phone goes off, turn the car ignition off. Remove the jumper wire and see if the car starts!



The car should start if all has gone to plan. The security indicator light should be off. If the car does not start do note that the 30-32 minute time is critical and the process only works if it is done in this time window.

Note if your OBDII plug isn't fully wired up, CG is chassis ground and the TC pin goes to the small ECU plug pin #27

