SKSNG447D4T Metris Remote Start & Alarm Installation Manual

Installation instructions for the SKSNG447D4T remote start and alarm module for Mercedes Metris 2016-2023

Written By: Mid City Support



INTRODUCTION

The SKSNG447D4T is a remote start and alarm interface for Mercedes Metris

Out of the box the remote start will working using the OEM key fob (1X press of the panic button or Lock-Unlock-Lock, if no panic button on key)

Vehicle Compatibility:

- Mercedes Metris 2016-2024

The SKSNG447D4T is compatible with the following add-ons:

- Any current Compustar Drone Smart Phone Control (X1, X2, LTE, MAX, XC)
- Compustar DAS II digital sensor for shock, tilt, glass break, and tow sensing (uses OEM horn for alarm)
- Compustar RF antenna and remotes **(NON-AM remotes only, AM remotes NOT compatible)**
- Directed Smart Start
- Compustar external remote start + alarm brain (eg, CM900, CMX)

The installation to the vehicle involves the following:

- EIS jumper modification
- T-harness connection behind the EIS (electronic ignition switch)
- Key box installation **(extra key required for installation)**
- Optional accessories and add-ons

There is no flashing required for this installation, but options settings can be programmed using the instrument cluster menu. See user's manual (link below) for options settings. Please go through menu to make sure settings such as run time are set to preferred setting.

Click Here for User's Manual

DO NOT MOUNT THE MODULE NEAR ANY HEAT SOURCES IN THE VEHICLE. SPECIFIC LOCATIONS TO AVOID ARE THE HEATER CORE ANDTHE TRANSMISSION TUNNEL

See end of guide for troubleshooting error codes

PARTS:

- SKSNG447D4T (1)

Step 1 — Remove trim around radio



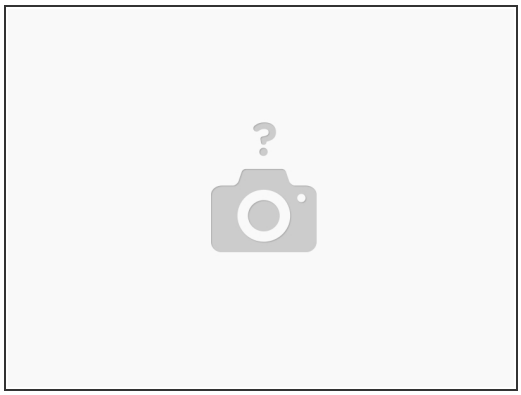
- Remove bezel around radio

Step 2 — Remove EIS



- Reach through cavity to left of radio grab EIS
- The EIS has one tab on the top and one tab on the bottom- squeeze the tabs toward the middle of the cylinder and pull EIS out of dash towards hood
- Remove EIS from dash and un-plug green 12 pin plug
- Remove blue 8 pin plug

Step 3 — EIS modification

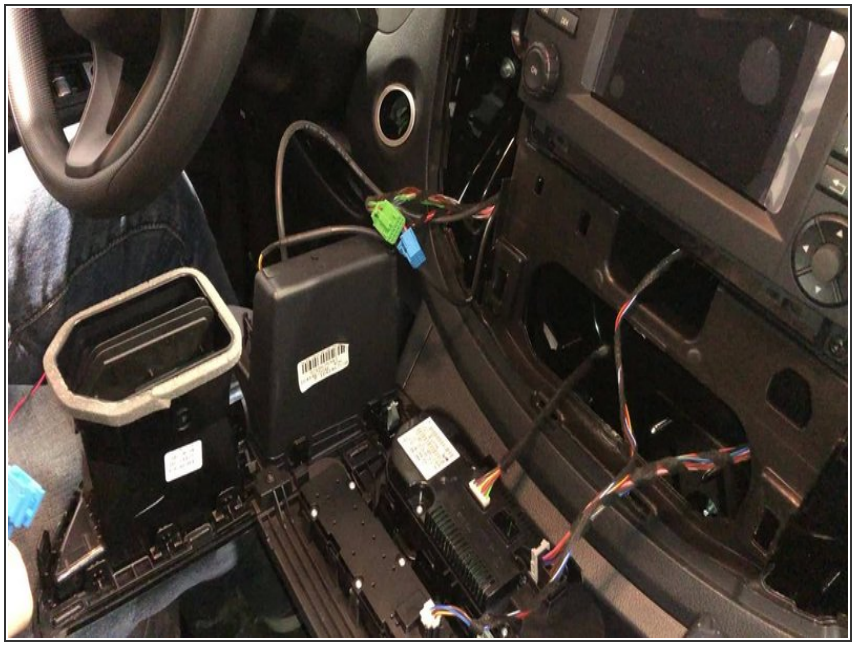


ⓘ The SKSNG447D4T requires an EIS modification. Professional installation highly recommended. The EIS may be sent to Mid City Engineering for modification. Please contact Mid City Engineering at 312-421-1114 or sales@midcityengineering.com if you would like to send in the EIS

- Click here for EIS modification instructions

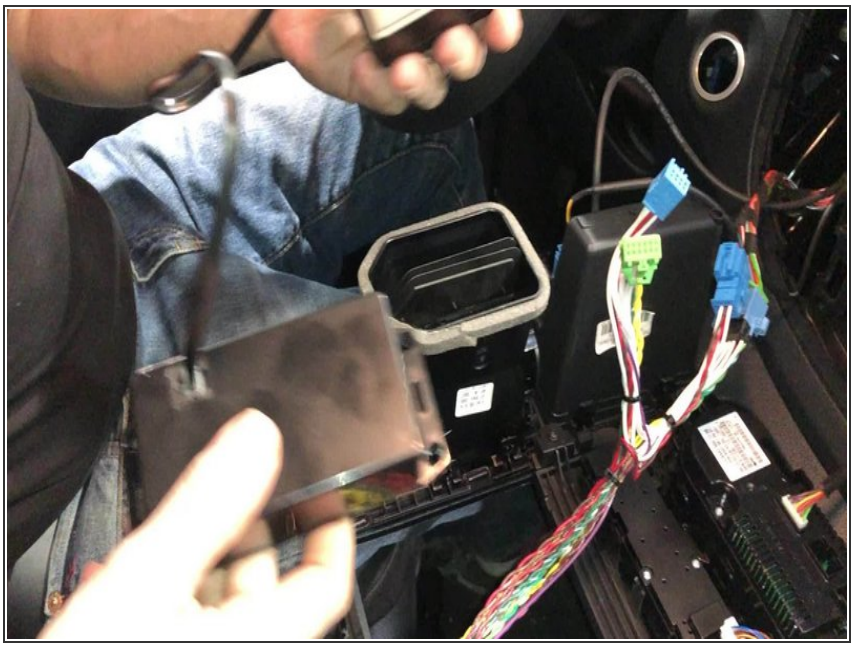
⚠ Make sure that you are using the correct soldering equipment detailed in the EIS modification instructions. If incorrect equipment is used the EIS could be damaged. Board level soldering is required.

Step 4 — Connect factory harnessing to T-harness plugs



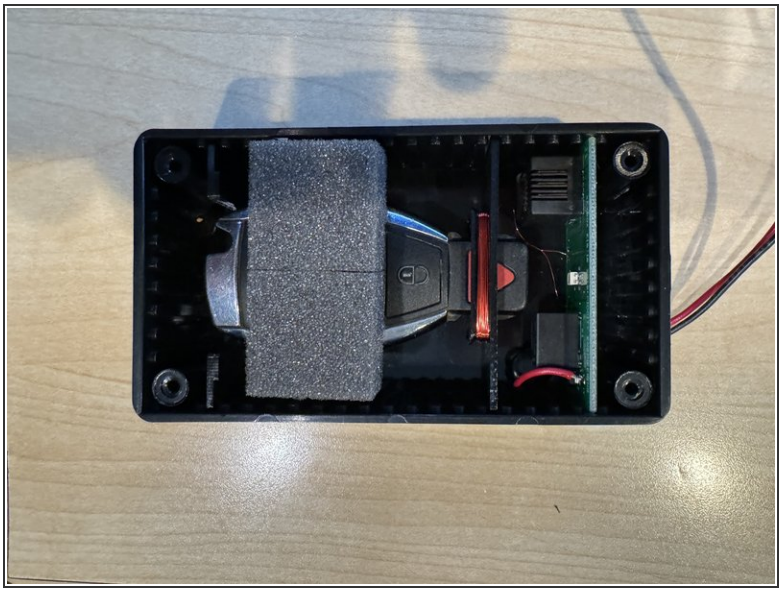
- Plug 8-pin factory blue plug that was removed EIS into 8-pin blue socket on supplied T-harness
- Plug 12-pin factory green plug that was removed EIS into 12-pin green socket on supplied T-harness

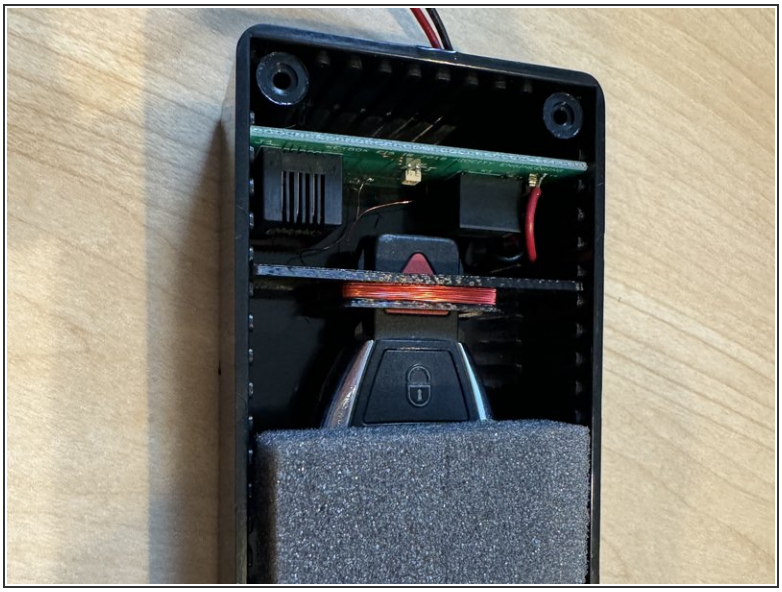
Step 5 — Connect T-harness to EIS



- Plug 12 pin green plug from T-harness into 12 pin socket on rear of EIS
- Plug 8 pin blue plug from T-harness into 8 pin socket on rear of EIS

Step 6 — Place spare key in key box





- Remove battery from key

ⓘ Insert key in key box as shown in picture. The key must be in the positioning shown in the picture.

Close and secure key box lid with provided screws

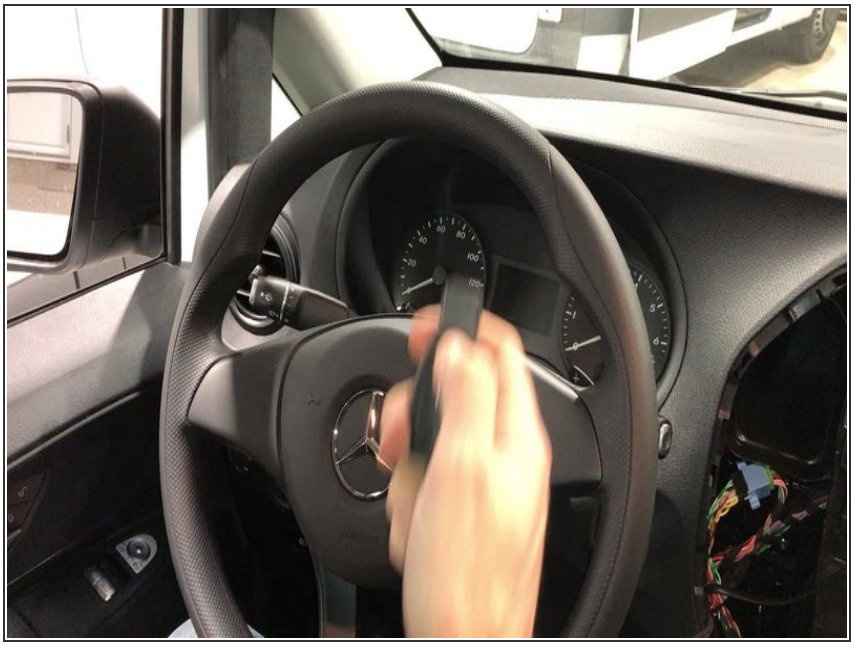
ⓘ If the key box lid is not closed and any light is getting into the box, the remote start will not work.

Step 7 — Connect T-harness & key box to module



- Connect 20-pin connector from T-harness to 20-pin connector on SKSNG module
- Plug 2-pin white plug from supplied key box to 2-pin white connector on SKSNG module

Step 8 — Test remote start operation



⚠ Make sure that doors are closed and vehicle is in safe position to start

- To test remote start, press the **panic button** on the OEM remote 1X
- If the OEM key does not have a panic button, use **LOCK-UNLOCK-LOCK** sequence from OEM key to remote start

Step 9 — Re-mount EIS into dash



- Route EIS through left side of radio cavity and into dash

Step 10 — Test alarm operation - lock doors



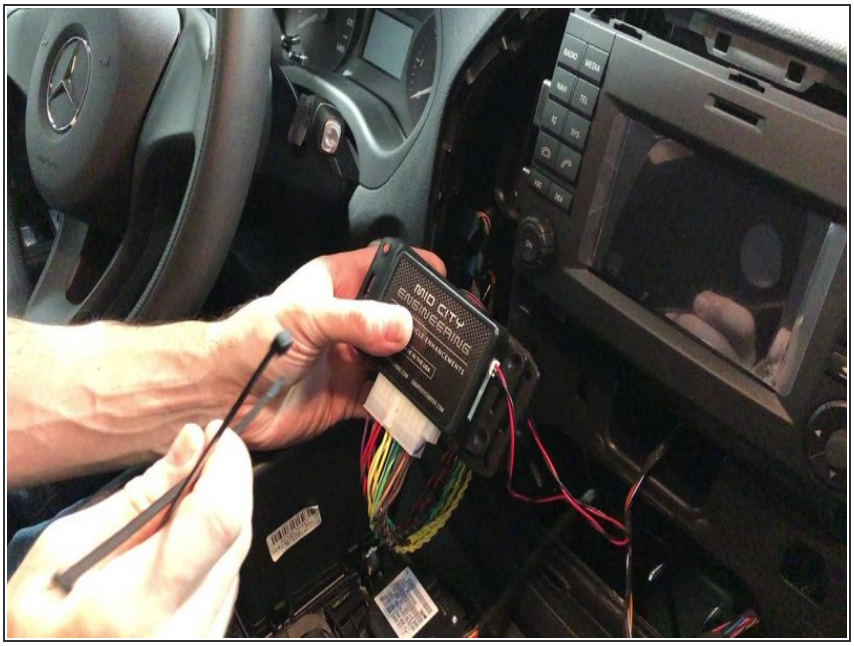
- From inside vehicle with all doors closed, hit ‘lock’ on OEM fob
- Parking lights should flash 3 times and the doors should lock

Step 11 — Test alarm operation - trigger door pin



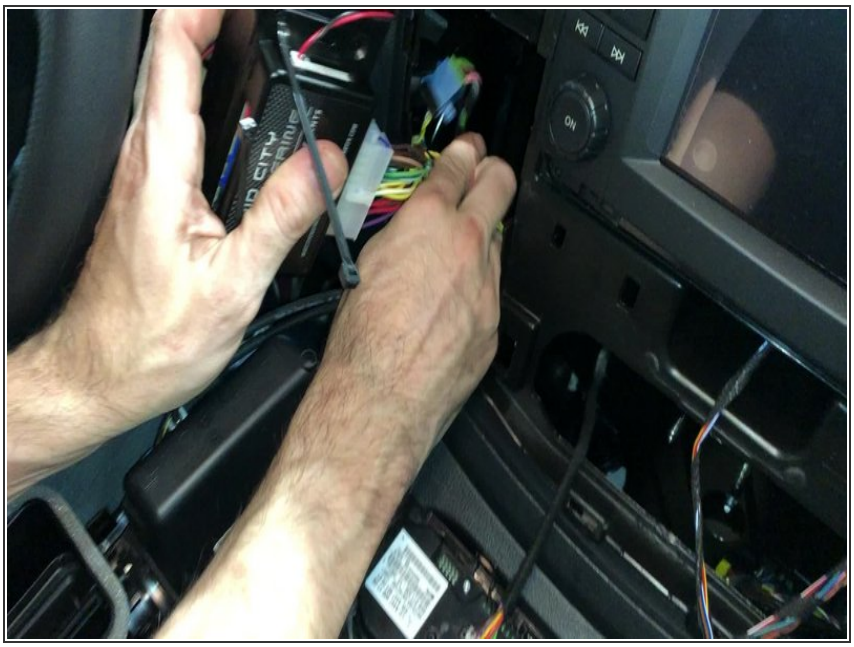
- Open door from inside handle- siren should sound and parking lights should flash

Step 12 — Mount key box to SKSNG module



- Use zip ties to mount key box module and NG module together

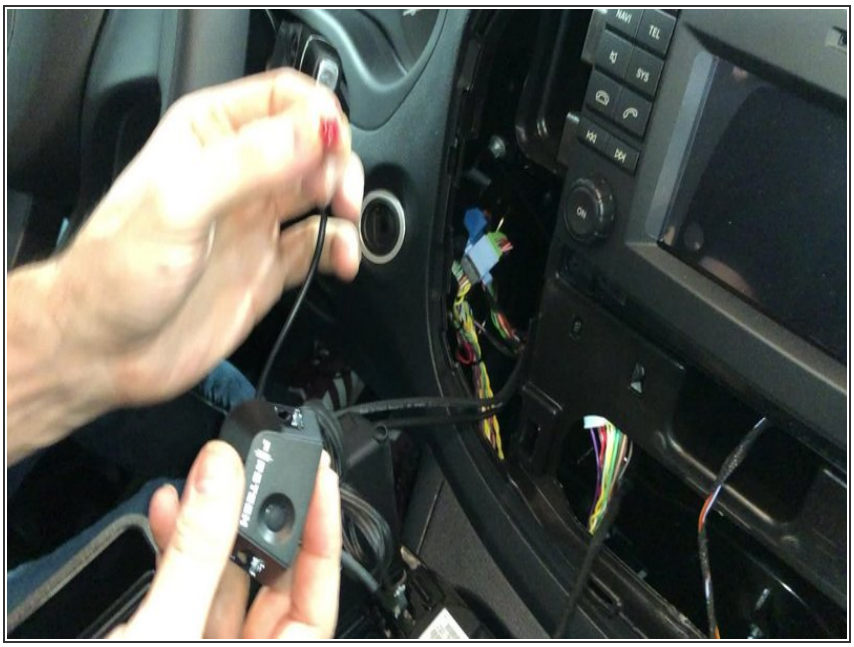
Step 13 — Mount module



- Mount harnessing and module

⚠ Be sure to mount module away from any heat sources or moving parts

Step 14 — OPTIONAL - DAS sensor connection



ⓘ A Compustar DAS sensor can be added for shock, tilt, and vehicle movement security. This will integrate into the alarm included with the starter

- Plug 4 pin cable from DAS sensor into 4 pin red plug on SKSNG module
- Mount DAS sensor per Compustar instructions

Step 15 — OPTIONAL - test DAS sensor



- Lock doors with OEM key fob
- Apply impact to vehicle chassis - siren should alarm

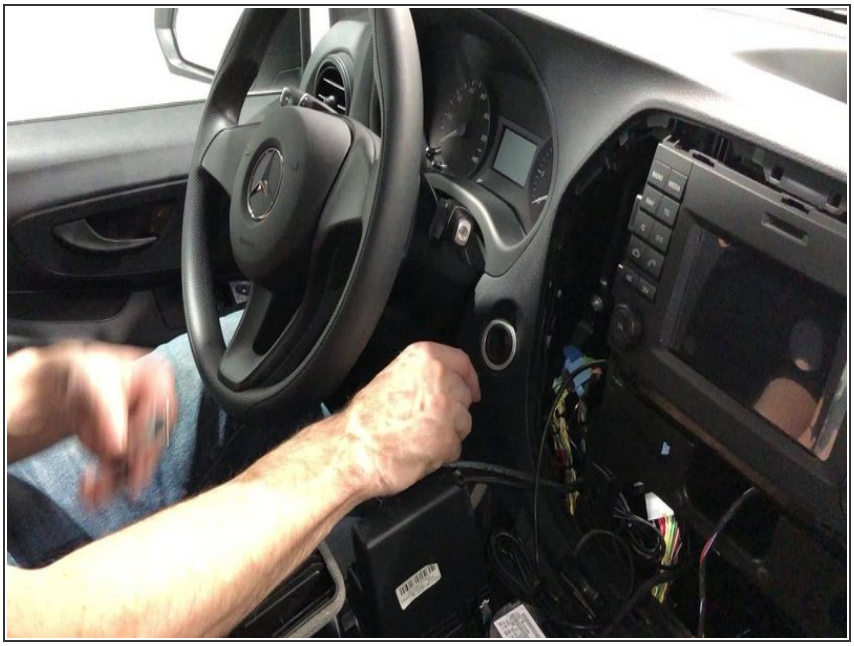
Step 16 — OPTIONAL - Compustar RF remote / antenna connection



ⓘ A Compustar RF remote and antenna kit can be added for external control of remote start, alarm, and door locks.

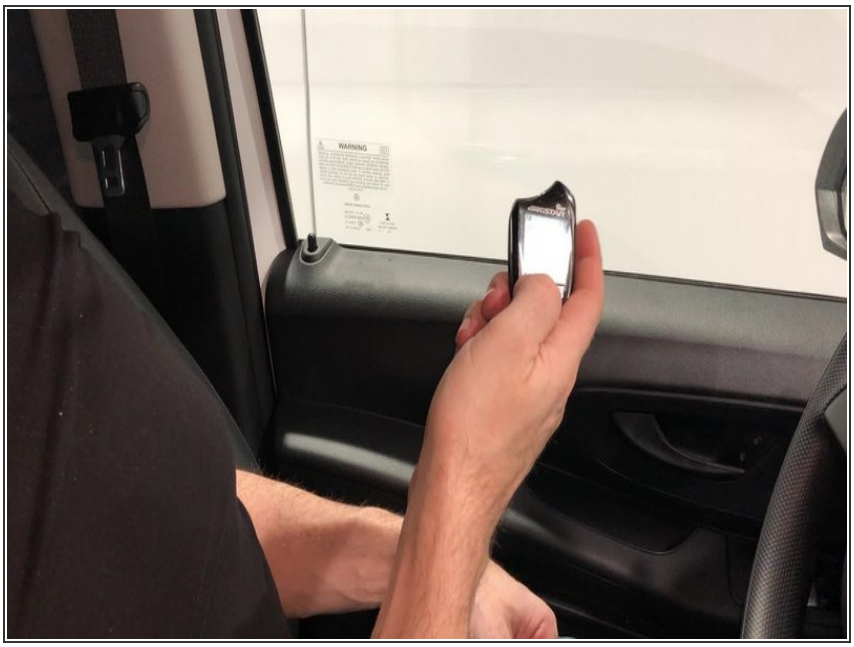
- Plug Compustar antenna cable into 4 or 6 pin blue plug on SKSNG module

Step 17 — OPTIONAL Compustar RF remote connection - remote programming



- Insert key and cycle from ‘OFF’ to ‘IGNITION’ (2nd position) 5X (ending in the ‘OFF’ position)
- After 5th cycle, hit the ‘LOCK’ button on each Compustar RF remote that is being programmed (programming 2-way remotes first)

Step 18 — OPTIONAL Compustar RF remote connection - test RF remote controls



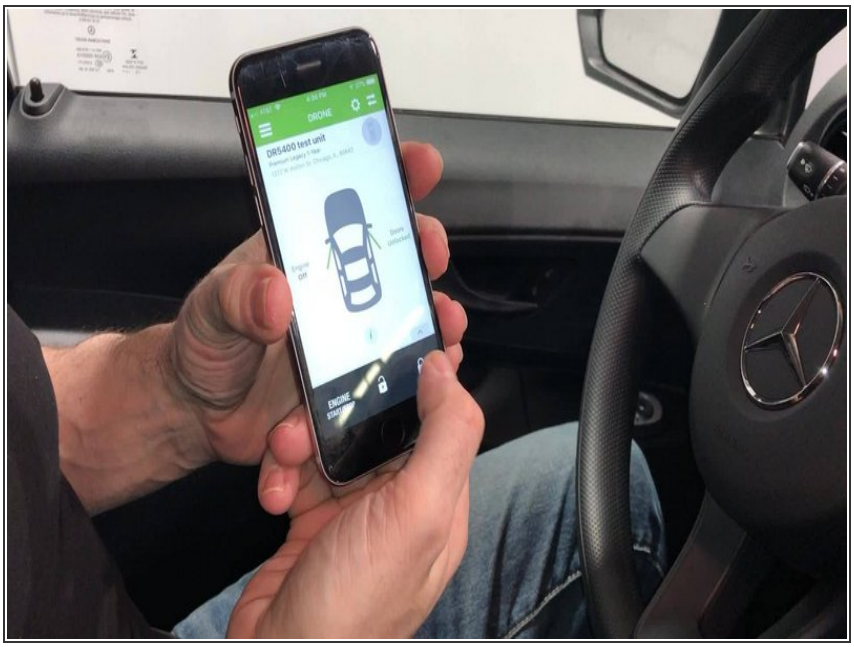
- Using Compustar RF fob, test lock, unlock and start controls

Step 19 — OPTIONAL DRONE CONNECTION - Connect Drone to SKSNG module



- Connect 4 pin connector from Compustar Drone module to 4 pin black plug labeled ‘DRONE’ on the SKSNG module

Step 20 — OPTIONAL DRONE CONNECTION - test controls from app



- Using Compustar Drone app, test lock, unlock and start controls

Step 21 — Replace bezel around radio



- Replace bezel and vents around radio and clip into place

Troubleshooting:

If vehicle receives the command, but fails to remote start, the parking lights will flash a # of times. The number of parking light flashes corresponds to an error code. To troubleshoot no remote start count the number of parking light flashes.

Note: after a brief pause, the error code may be followed by a shutdown sequence of 3X flashes after the initial code

Error codes:

4 Flashes: Valet mode. The remote start is in valet mode (remote start off). Click here for valet mode instructions using the instrument cluster menu.

5 Flashes: Wrong variant. Power cycle modules and try again.

6 Flashes: Brake depressed. The vehicle sees that the brake is depressed. If the brake pedal is not pressed down, it is possible that the brake switch is out of alignment. Check brake switch above brake pedal. If brake switch is out of alignment, you may see brake lights on all the time when the vehicle is started.

7 Flashes: Hood open. The remote start will not work if the hood is open or latch is not fully closed.

8 Flashes: RPM overrev. Vehicle sees that RPM is too high.

9 Flashes: Not seeing the key.

Check key box and connections:

Verify placement of key. If key is too far forward in key box or not far enough forward, there will be a key error.

Check to make sure 2-pin white port is plugged into SKS module and RJ cable from EIS is connected to key box. Make sure connections are secure.

Make sure key box is fully closed and secure and no light is entering key box.

Check EIS connections:

If there is an issue with the EIS modification, there can be a key error (9 or 11 flashes).

10 Flashes: Communication error. Check connections and power cycle module.

11 Flashes: Not seeing the key.

See 9 flashes (same error)

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