

# Volvo XC40, XC60, XC90, S60, S90 Remote Start Installation -SKSXC

Installation guide for Volvo XC60 / XC90 / XC40 / s60 / S90 3X lock remote start with optional Compustar Drone add-on or Compustar RF remotes.

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## INTRODUCTION

The **SKSXC** is a remote start interface that connects to the Volvo telematics module in the passenger side kick.

**The installation requires four (4) connections to the telematics harness.**

- CAN high
- CAN low
- Power
- Ground

**Optional connection:** Compustar Drone telematics module for smart phone integration and GPS services

**Optional connection:** Compustar RF remote antenna for external remotes using Compustar FTD100 adapter

*Standalone, the SKSXC will work using the factory key fob (3X lock)*

### **Compatibility:**

XC40 2018-2019

XC60 2017-2019

XC90 2015-2019

S60 2019

S90 2017-2019

**Note:** any current body style Volvo should work with the SKSXC if OEM telematics is available with remote start. We are in the process of validating more models and model years and will update this list as we do.



### **TOOLS:**

- Soldering Iron (1)
- Electrical tape (1)
- Wire strippers (1)
- Heat shrink (optional) (1)



### **PARTS:**

- SKSXC (1)

## Step 1 — Remove trim cover along door sill



- Remove plastic trim cover along passenger door sill

## Step 2 — Access harness going into door



- Pull back flooring carpet
- Access taped harness which goes from kick area to door



### Step 3 — Remove section of tape from harness



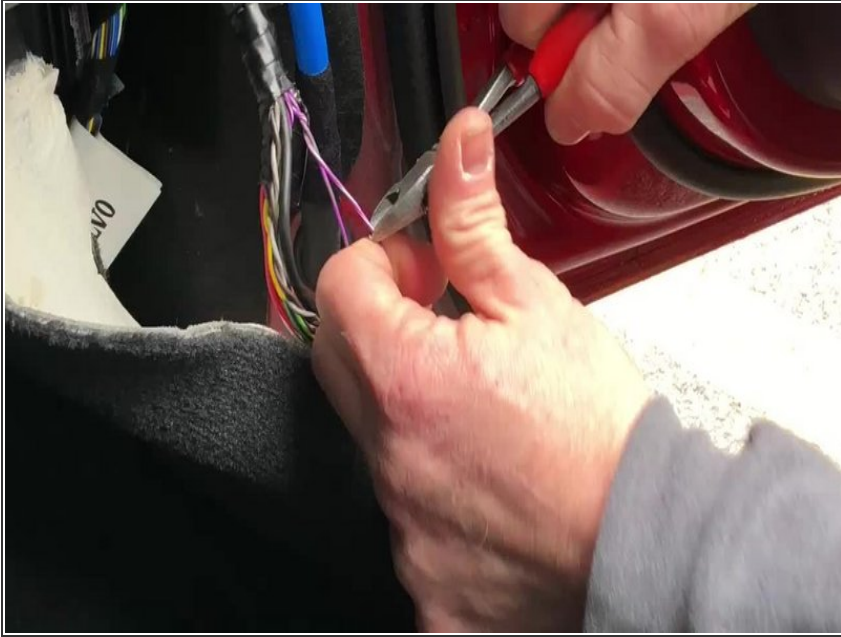
- Cut section of tape and remove so that wires in harness can be accessed

### Step 4 — Identify CAN wires



- Identify twisted pair of **purple / white** and **purple / green** wires from factory harness
- ① There may be two (2) twisted pair of purple/white and purple/green wires in the factory harness. Either set may be used. Be sure to use the same wires from the same set (do not use one wire from one set and another wire from the other twisted set).

## Step 5 — Connect CAN wires



- Connect **white** wire from SKSXC harness to **purple/white** wire from factory harness
- Connect **purple** wire from SKSXC harness to **purple / green** wire from factory harness

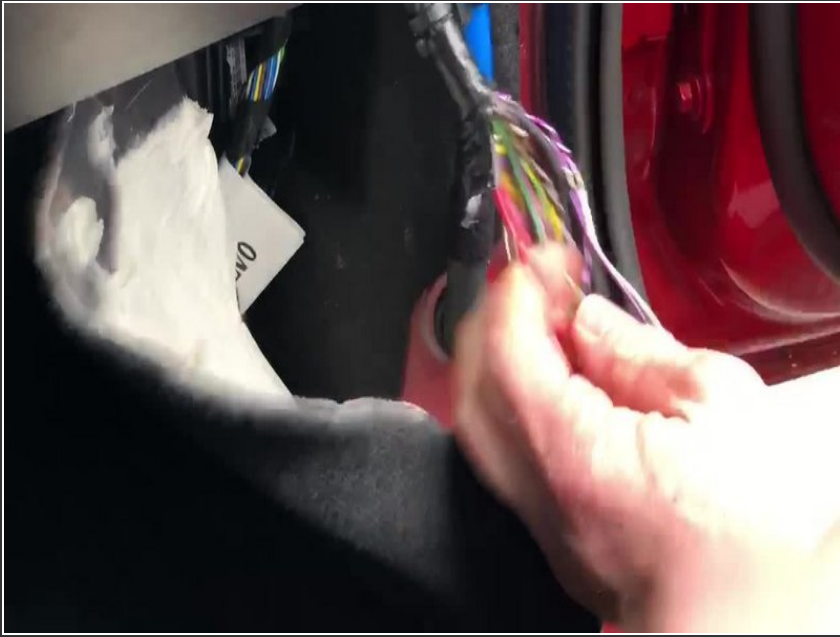
**⚠ Be sure to solder and insulate all connections**

## Step 6 — Identify power wire



- Locate **red** wire in harness

## Step 7 — Power connection



- Connect **red** wire from SKSXC harness to **red** wire from vehicle harness

**⚠ Be sure to solder and insulate all connections**

## Step 8 — Connect ground wire



- Locate **black / white** wire connected to bolt next to door jam
- Connect **black** wire from SKSXC harness to **black / white** wire at bolt

**⚠ Be sure to solder and insulate all connections**

- ① You may also use a ring terminal to connect SKSXC ground wire to bolt

## Step 9 — Plug in module



- Plug SKSXC module into SKSXC wiring harness



## Step 10 — Test remote start operation



**⚠ Ensure that vehicle is in a safe location to start engine**

**★ Close all doors (all doors AND windows must be completely closed for remote start to work).**

**★ It is important to test before re-assembling vehicle in case any troubleshooting needs to be performed**

● From outside vehicle, press **lock** button on key fob **three (3)** times

**i** If the fuel in the vehicle is  $< 1/4$  tank, the remote start will not work

**i** The vehicle will allow for two (2) remote starts between key cycles of at least two (2) minutes. Ignition must be on with key (manual start or key takeover after remote start).

**★ All doors AND windows must be completely closed for remote start to work**



## Step 11 — Test key takeover



- With remote start on, unlock and enter vehicle with key
- Rotate turn-to-start **clockwise (ignition)**. Instrument cluster will turn on.
- Test gear shift. If gear shifts, key takeover has been performed.

## Step 12 — Test hood shutoff



- Open hood
- Step outside vehicle and close all doors (**leave hood open**)
- Attempt to remote start using 3X lock on the key fob
- Verify that remote start does not turn on
- Close hood

### Step 13 — OPTIONAL - Compustar Drone connection



- Plug Compustar Drone into grey port on SKSXC module

### Step 14 — OPTIONAL Compustar Drone connection (check cellular connection)



- Activate Drone at [www.dronemobile.com](http://www.dronemobile.com)
- Ensure that blue and green LEDs on Drone are both **flashing**

## Step 15 — OPTIONAL - Test Drone operation



- Setup Drone module/account on mobile application in accordance with Drone quick-start instructions (or go to test site if you are a Compustar dealer).
- ★ **Close all doors and lock** vehicle using key fob. Remote start will not work unless all doors are closed and vehicle is locked.
- Open Drone mobile application or login to Drone on web browser and press 'START' button. Vehicle should start.

## Step 16 — OPTIONAL - RF remote connection



- Connect one side of blue cable of Compustar FTD100 adapter into grey port on SKSXC module
- Connect remaining side of blue cable into black port on FTD100
- Plug antenna cable into corresponding blue 4 or 6 pin port on FTD100

- To program remotes, cycle the ignition on and off (using push to start dial) 5X. Finishing the cycle on OFF. Then hit lock on each



Compustar RF remote being programmed (starting with 2-way if applicable)

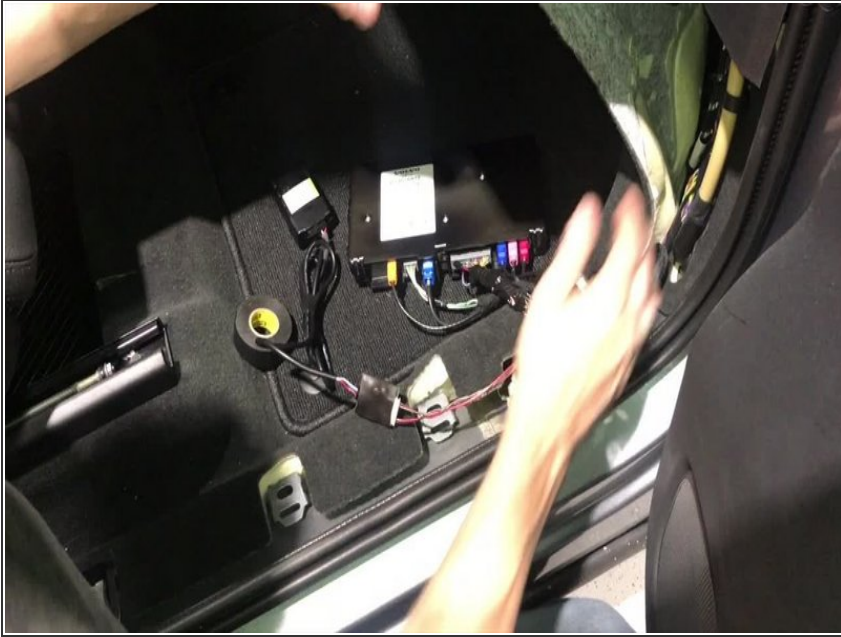
- For FMX remotes, Cycle IGN 5x > press and release button on the Antenna>press and release lock button on each remote

## Step 17 — OPTIONAL - Test RF remote operation



- Once RF remotes are programmed (see previous step), test remote start/stop, lock/unlock from external RF remotes

## Step 18 — Mount module(s) and re-assemble kick area



- Tape factory harness and make sure all connections are soldered and insulated
- **Securely** mount SKSXC and Drone / RF antenna (if applicable). Recommended location is above factory module in kick
- Move carpet back to original position
- Replace plastic trim cover