



# Technical Journal

TITLE:

**Engine Remote Start (ERS), technical information**

<b>REF NO:</b> TJ 26767.1.8	<b>ISSUING DEPARTMENT:</b> Technical Service	<b>CAR MARKET:</b> United States and Canada	
<b>PARTNER:</b> 3 US 7510 Volvo Car USA		<b>ISSUE DATE:</b> 2017-06-22	<b>STATUS DATE:</b> 2017-06-27
<b>FUNC GROUP:</b> 3300	<b>FUNC DESC:</b> Starting system	Page 1 of 10	

“Right first time in Time”

## Attachment

File Name	File Size
ERS_Accessory_Blue_Bulletin.pdf	0.6951 MB
ERS_User_Guide.pdf	0.1586 MB

## Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2012-2013		-	0-0
134	61	B5254T12					2013-2013		-	0-0
134	90	B6304T4					2012-2013		0076075-0999999	201120-201319
136							2012-2013		-	0-0
156							2012-2013		-	0-0
1XX							2014-2015		-	0-0

## CSC Customer Symptom Codes

Code	Description
7B	Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt
EF	Engine Remote Start (ERS)/Does not work

## VST Operation Number



## **DTC** Diagnostic Trouble Codes

Rows beginning with \* are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

## **Text**

### **DESCRIPTION:**

ECM = Engine Control Module

PCC = Personal Car Communicator

DIM = Driver Information Module

ECM = Engine Control Module

PCC = Personal Car Communicator

DIM = Driver Information Module

ERS is available as an accessory for the following vehicles:

- XC60 MY 2012 & 2013
- S60 (T6) MY 2012 & 2013 (Ch 076075-)
- S60 (T5) MY 2013 only
- XC70 MY 2012 & 2013
- S80 MY 2012 & 2013
- All P3 MY 14-

### **SERVICE:**

See accessory catalogue or VIDA for Software Product number.

<http://accessories.volvocars.com/AccessoriesWeb/Accessories.mvc/en-US/US>

As with all software downloads, be sure customer settings are recorded and reinstalled.

### ECM software:

It may not be possible to purchase the ERS software if the ECM does not contain the latest software. If this occurs, upgrade the ECM software before proceeding.

### After VIDA has downloaded the ERS software:

1. Start the engine the normal way by pressing the start button (not by ERS)
2. Turn off the engine.
3. Lock the vehicle.
4. Wait for about 5 minutes until the vehicle has gone to sleep-mode.
5. Start the engine with the ERS according to the instruction below.

If the engine does not start, go back to step 3.



### To start the engine with ERS:

1. Press the Lock button on the remote control.
2. As soon as the vehicle has locked, press and hold the Approach light button (the button with the light symbol) for more than 2 seconds. The hazard warning flashers will flash for a few seconds and then the engine will start.

### To turn the engine off after an ERS start:

Press the lock or the unlock button on the remote control.

### ERS will not function if:

- The vehicle is in transport mode.
- The fuel level is low.
- The vehicle battery voltage is low.
- The engine coolant level is low.
- A fault is detected by the engine management system.
- The vehicle is not locked (all doors and the trunk/tailgate must be closed to lock the vehicle).
- Two consecutive ERS starts have already been performed. If a 3rd ERS start is attempted the hazard warning flashers will flash for 30 seconds and a message will be displayed in the DIM.
- \* - The remote battery is low. It is possible for a low remote battery to unlock the car but not to perform an ERS start.

### Checking the ERS status using the remote:

For PCC remotes, the user can check whether ERS has started by pressing the Information button. If ERS has started, a light illuminates on the button for Approach lighting and the lock button.

This function is available on model year 2013 remotes but not model year 2012 remotes.

This function can be enabled on 2012 XC60/XC70/S80 vehicles by replacing the original remotes with 2013 remotes.

This function cannot be enabled on 2012 S60 vehicles.

Note: ERS installation is an accessory and not a matter for warranty.

### **VEHICLE REPORT:**

N/A.

**To view TJ attachments continue to next page. This TJ has two attachments.**



## ACCESSORY BLUE INFORMATION

Date: April 9, 2012

Market: United States, Canada

Subject: Engine Remote Starter

Warm in the winter



Cool in the summer



Volvo is pleased to announce the launch of the highly anticipated engine remote start accessory. The Volvo Engine Remote Start (ERS) allows the driver to start the car by simply pushing a button sequence on their existing Volvo key fob. Now, the car can warm up or cool down to a desired temperature before the driver and passengers enter the vehicle. The vehicle will heat or cool to the same temperature settings that were in place when the car was turned off. The car will run up to 15 minutes before shutting off making customers comfortable from the moment they enter the car – whether it's a frigid winter morning or a hot summer day.

**Important Note:** There is no need to purchase a new key FOB on either 2012 or 2013 when installing Engine remote start. The key FOB (both PCC and non PCC) will work with the ERS software.

Please be aware that the **original** PCC key FOB for **MY2012** vehicles will not have the light indication that the car has started.

If the customer requires this function they will need to purchase a **new 2013** (PCC) key FOB. This only applies for MY 2012 XC60, XC70 and S80.

**(For MY 2012 S60 the light indication functionality is not available.)**

**The Engine Remote Start is available for the following models**

- XC60 MY 2012 & 2013
- S60 (T6) MY 2012 & 2013 (Ch 076075 – and higher)
- S60 (T5) MY 2013 only
- XC70 MY 2012 & 2013
- S80 MY 2012 & 2013

**Part Numbers and Pricing - *"Volvo recommended Installed MSRP \$499.00"***

P/N	Description	Model	MY	Dealer Net	MSRP
30659842	ERS Software	XC60 / S60	2012 & 2013	\$307.30	\$439.00
31339292	User Manual	XC60 / S60	2012 & 2013	\$5.00	\$7.75
				\$312.30	\$446.75

P/N	Description	Model		Dealer Net	MSRP
30659697	ERS Software	S80 / XC70	2012 & 2013	\$307.30	\$439.00
31339292	User Manual	S80 / XC70	2012 & 2013	\$5.00	\$7.75
				\$312.30	\$446.75

## **Additional Benefits and Safety Features**

- Remote start can be activated up to 2 times in a row at 15 minutes each time, after the 2nd activation the car must be restarted normally by inserting the key fob and push the start button in the ignition.
- Remote start will only activate when the car is in park and all doors locked. The vehicle will shut down when any doors are opened, or the brakes or shifter is activated.
- Engine remote start is switched off when motion is detected in the passenger compartment, when fuel level is lower than 2.6 gallons, coolant level too low, low battery voltage, or there are any errors in the engine management System.

MY 2013 cars with the PCC key fob can check whether ERS has started by pressing the **information button**, a green light illuminates on the lock button and red light on the Approach light button.

## **Technical Tips**

After a successful download of the ERS software you must first follow these steps.

1. Start the engine the normal way **by pressing the start button** (not by ERS)
2. Turn off the engine.
3. Lock the vehicle.
4. Wait for about 2 minutes until the vehicle has gone to sleep-mode.
5. Start the engine with the ERS according to instruction below.
6. If the engine does not start go back to step 3

Note: some customer setting may have been reset due to the ERS download, Please check all window settings etc.

## **How to start the engine by ERS**

1. Lock the vehicle.
2. Press **Lock** button on the remote control.
3. Press and hold the **Approach light** button (the button with the light symbol) on the remote control for more than 2 seconds.

The turn indicator lights on the vehicle will flash for a few seconds and then the engine will start.

## **How to turn off the engine after ERS.**

1. Press the lock or the un-lock button on the remote control.

## EN Remote start, engine

### Introduction

#### Abbreviations

**ERS** - Engine Remote Start.

#### General information

With ERS, the car's engine can be started remotely via the remote key, for example, to heat up or cool down the passenger compartment. The climate control system starts with the same settings used when the car was parked.

ERS is activated for a maximum of 15 minutes, thereafter the engine is switched off. After two ERS-activations, the engine must be started in the normal way before ERS can be re-used.

ERS is on cars with automatic transmission and on most engine variants. Installation of ERS is carried out at service workshops.

The ERS function affects the service life of the key's battery. In the event of frequent use of ERS the battery should be changed once per year.

#### Safety regulations

It is the responsibility of the user to adhere to the following safety regulations when using ERS.

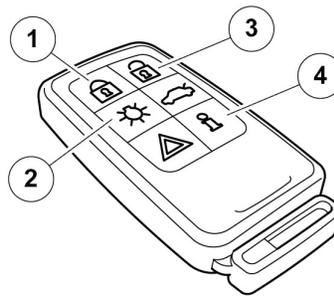
- The car must be under supervision when ERS is activated.
- The car may not be in a garage or similar spaces without ventilation.
- Local/national regulations regarding idling rules must be followed.
- ERS must not be used with a person or animal inside the car.

### Functions

ERS is started using the car remote key.

There are two versions of remote key, one with 5 buttons (Remote key) and one with 6 buttons (PCC - Personal Car Communicator).

- 1 **Locking**
- 2 **Approach lighting (used to start the ERS)**
- 3 **Unlocking**
- 4 **Information**



### Note!

For further information about the remote key, please refer to the car's manual.

## EN Remote start, engine

### Use

#### Activating ERS

ERS can be activated when the car is stationary with the gear selector in **P** and all doors are locked.

Activate ERS with the following button presses on the car's remote key:

- 1 Quick press of the key for **Locking** button
- 2 Hold the **Approach lighting** button in for at least 2 seconds

If the conditions for ERS are met, the following happens:

- 1 All indicators flash quickly several times
- 2 The engine starts
- 3 All indicators come on continuously for 3 seconds

#### For PCC the following applies

The Approach lighting indicator flashes for several seconds when pressed and then lights red continuously if all criteria to start ERS are met. This does not mean that ERS has started.

The user can check whether ERS has started by pressing the Information button. If ERS has started, a light illuminates on the button for Approach lighting and the lock button.

#### Active functions

The following functions are active when ERS is activated:

- Ventilation system
- Audio- / video system

#### Inactive functions

The following functions are deactivated when ERS is activated:

- Headlamps
- Parking lamps
- Number plate lighting
- Windscreen wipers

#### Switching off ERS

When ERS is activated it is shut off if:

- The remote key button for **Locking or unlocking** is pressed
- The car is unlocked
- A car door is opened
- The accelerator or brake pedal is depressed
- The gear selector is moved out of **P**
- The fuel level is lower than 10 litres
- Active ERS time exceeds 15 minutes

When ERS switches off, all indicators illuminate continuously for 3 seconds.

### Messages when ERS is not working

Situations where ERS is interrupted or not working is indicated by a message in the combined instrument information display.

Message	Meaning
No remote start - Max 2 starts	ERS stopped working as only a maximum of 2 ERS activations are permitted in sequence. ERS is available again after the car has been started in the normal way.
No remote start low fuel	ERS stopped working due to low fuel level.
No remote start gear not in P	ERS stopped working as the gear selector was not in <b>P</b> .
No remote start driver in car	ERS was stopped because the movement sensor detected movement in the passenger compartment.

No remote start low battery	ERS stopped working due to low battery voltage. Charge the battery by starting the engine.
No remote start engine warning	ERS stopped working due to warning message from the engine's control system. Contact service workshop.
No remote start engine coolant	ERS stopped working due to an error message being received from the cooling system. See manual for further analysis.
No remote start car not locked	ERS stopped working as the car was not locked.
No remote start door open	ERS stopped working as a door (even tailgate) was not closed.

### Message when ERS is interrupted during operation

Error text	Error cause
Remote start off low fuel	ERS was interrupted due to low fuel level.
Remote start off gear not in P	ERS was interrupted when the gear selector was moved from position <b>P</b> .
Remote start off driver in car	ERS was interrupted when the movement sensor was activated by movement in the passenger compartment.
Remote start off engine warning	ERS interrupted due to error message from engine. Contact service workshop for more information.
Remote start off low battery	ERS was interrupted due to low battery voltage.