

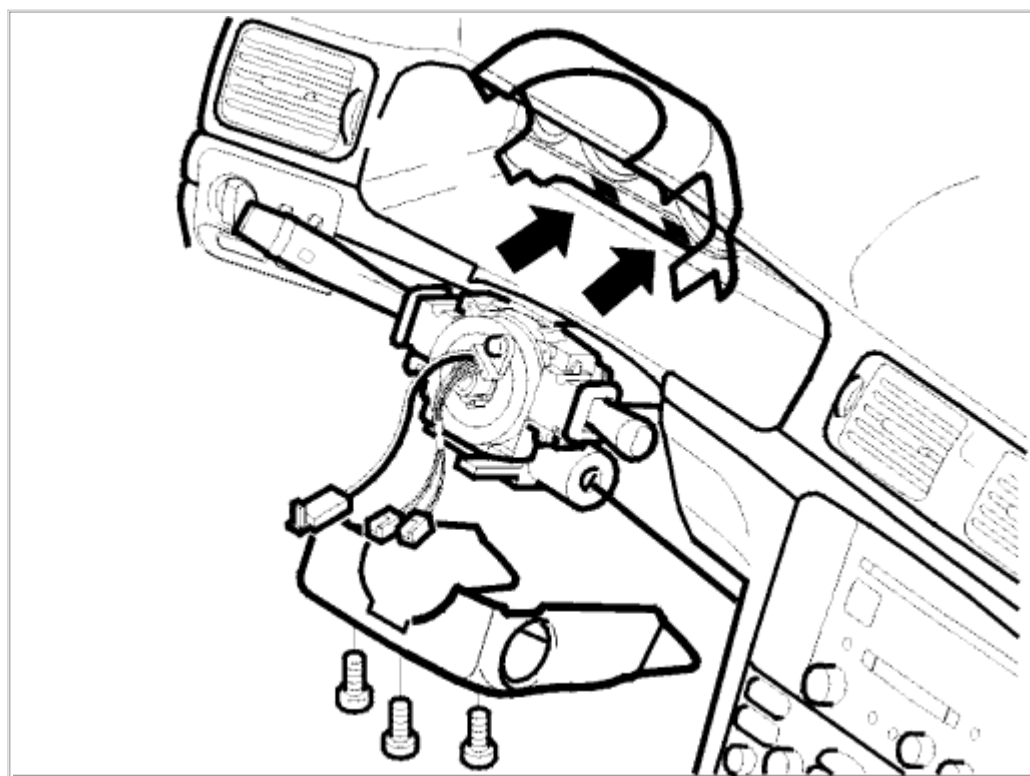
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## Service and Repair

[Notes](#)

### Replacing The Steering Column Covers

#### Removing



- Remove three screws.
- Pull the [steering wheel](#) as far out as possible.
- Remove the clip mounting between the covers.
- Remove the lower steering column cover.
- Remove the seal for the clip mounting at the dashboard.
- Remove the upper steering column cover.

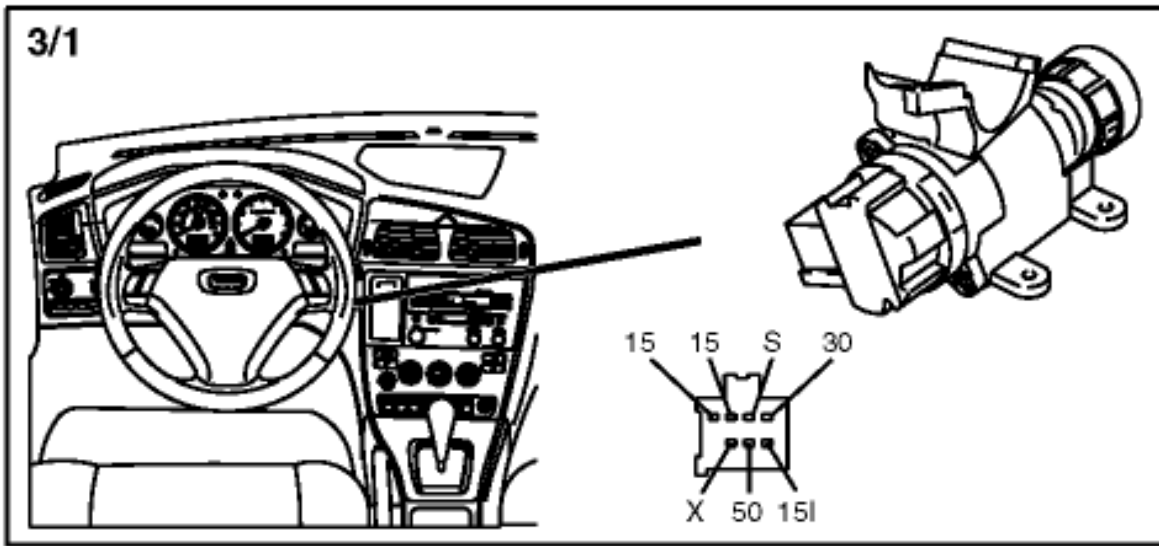
#### Installing

- Install the lower cover for the [steering column](#). Secure the seals for the switches
- Install the three screws.
- Press the seal in towards the dashboard in the upper steering column cover.
- Press the upper cover into place in the upper cover.

**NOTE:** Check that the seals for the switches are positioned correctly throughout the operation.

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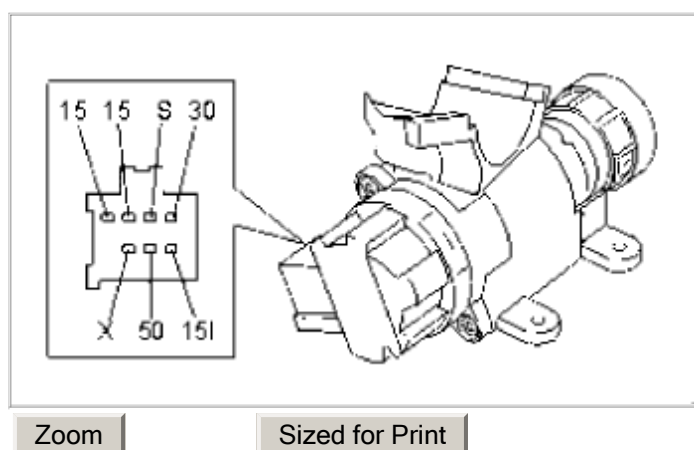
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## Description and Operation

[Notes](#)

### Design

#### Ignition switch



The Engine Control Module (ECM) uses the signal from the ignition switch to detect when the ignition key has been turned to position II or III. When the key is in the ignition position (position II) or starting position (position III) a high signal (U (bat)) is transmitted from the ignition switch to the engine control module (ECM). The engine management system prepares for start-up (for example, temporarily activates the fuel pump (FP) relay). When the flywheel in the engine rotates, the engine speed (RPM) sensor signal is used to keep the fuel pump (FP) relay activated.

The fuse in the fuse box in the passenger compartment supplies current to the ignition switch.

The central electronic module (CEM) can diagnose the ignition switch.

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## Service and Repair

[Notes](#)

### Replacing [Steering Wheel](#) Lock

### Removing [steering wheel](#) lock

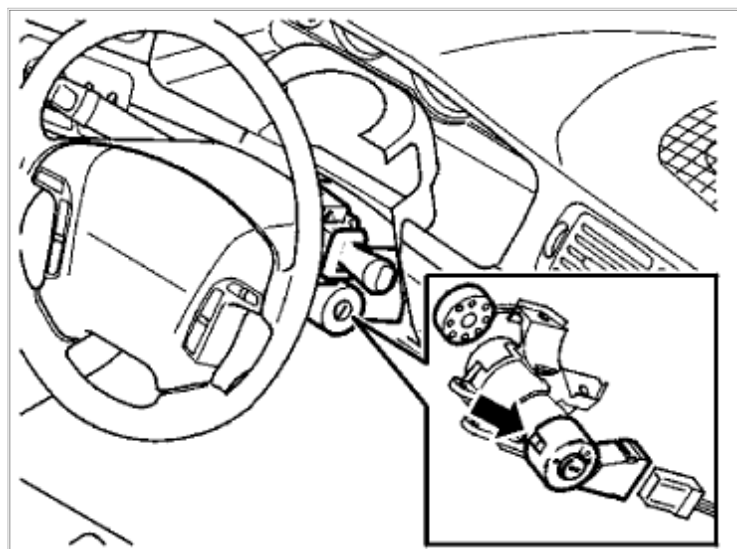
#### Preparation

- Pull down the [steering wheel](#) adjustment lever and pull up the steering wheel to the uppermost position.

#### Removing the [steering column covers](#)

Combined instrument panel surround.

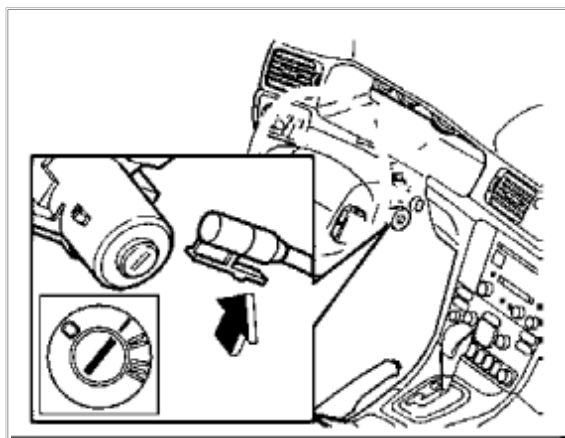
#### Removing the [steering wheel](#) lock unit



- Remove the connectors
- Press in the snap fastener and remove the [steering wheel](#) lock unit.

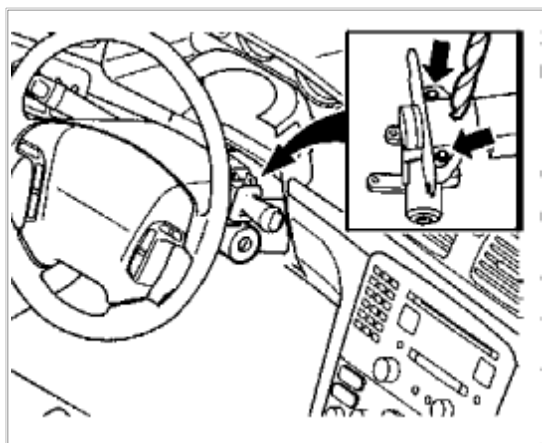
#### Remove the ignition switch interlock cable (only automatic transmission)

### Applies to cars with automatic transmission:

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- Remove the mechanical cable for the ignition switch interlock
- Move the ignition key to position I
- Press up the lock facing and pull out the cable.

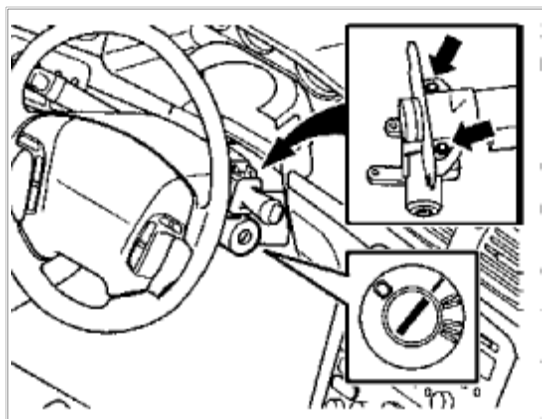
### Removing the [steering wheel lock](#)

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- Drill out the security screws holding the [steering wheel lock](#)
- Remove the [steering wheel lock](#).

### Installing [steering wheel lock](#)

### Installing the [steering wheel lock](#)



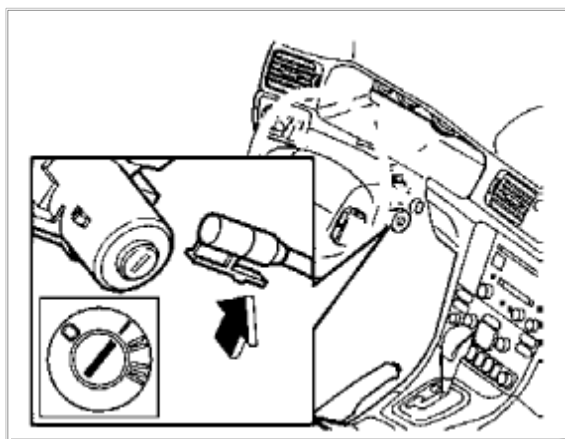
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- Insert the ignition key in the new [steering wheel](#) lock Check that the key is in position 1. Check that
- Check that the key is in position 1. Check that the locking lug on the [steering wheel](#) lock is down
- Install the new [steering wheel](#) lock against the cap on the [steering column](#)
- Install the new security screws
- Tighten the security screws until the screw heads break off.

### Install the cable for the ignition switch interlock (only automatic transmission)

Applies to cars with automatic transmission:



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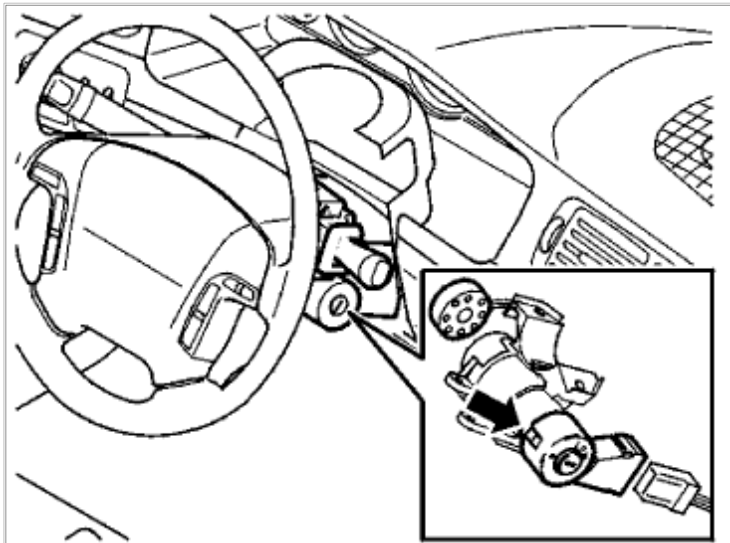
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- Move the gear selector lever to position P
- Move the ignition key to position I
- Press the mechanical cable into the ignition switch and feel to see that it is correctly secured
- Remove the ignition key and check that the gear selector lever is blocked in P

position.

### Installing the [steering wheel lock unit](#)

- Remove the ignition key.



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### Install

- the connectors
- the steering lock module.

### Installing the [steering column covers](#)

Combined instrument panel surround.

### Finishing

- Adjust the [steering wheel](#) setting and lock the steering wheel adjustment lever.

### Ordering software / keys

**Note:** To add a key, a key and software must be ordered. Only software must be ordered to erase a key.

Order a key and/or software.

### Programming keys in the control module

**Note:** Keys can only be programmed or erased when the key and/or software have been delivered.

Program or erase the key in the control module.

The function must be checked if a new key has been added.

Check in VADIS that no diagnostic trouble codes have been stored during the process.

**Carry out a function test**

- Test start the engine.

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