

May 2016 **Technical Service** 

#### **ELV Does Not Release**

New information provided by this revision is preceded by this symbol vertex.

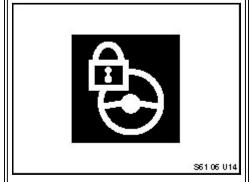


This Service Information bulletin supersedes SI B61 29 06 dated January 2014.

### **MODEL**

E90, E91, E92, E93 (3 Series) to 9/2006 (with	E60, E61 (5	E63, E64 (6
Manual Trans) and to 12/2006 (with Auto Trans)	Series) to 3/2007	Series) to 3/2007

# **SITUATION**



The customer complains of a no-crank, no-start situation. The condition may be intermittent. The ELV (Electric Steering Lock) warning is shown in the Instrument Cluster.

#### **CAUSE**

Cause 1: The steering column is held against the steering lock because of torque from the steering gear. In such cases, a yellow check control warning (CC ID# 187) is shown in the instrument cluster, but no faults are stored.

Cause 2: Communication fault in the CAS (Car Access System) and ELV system network and/or battery low. The problem may cause the ELV warning to be displayed in yellow or red.

#### CORRECTION

Cause 1: Relieve the torque from the steering wheel and repeat the starting operation. No repairs are necessary (refer to the Owner's Manual for more information).

Cause 2: In the case of a customer complaint, before connecting to the BMW Diagnosis System, duplicate the "no-crank" complaint.

For comfort access-equipped vehicles, rule out specific comfort access-related issues by inserting the remote key in the key holder.

Carry out a short test – do not delete the fault memory. Follow the relevant ISTA test plans, using the latest ISTA version through to completion.

Basic Features. Then follow the diagnostics path: Vehicle management / Troubleshooting / Function structure / Power train / Engine start / Comfort start / Start search to get to the test plan "Start function"

# Additional troubleshooting tips:

- For CAS FC A111 (ELV voltage supply fault) due to low 15WUP signal voltage, refer to B61 07 06 (No crank, no start CAS FC A111).
- For basic troubleshooting, the system requires the following conditions for the starter to turn (engine crank):
  - 1. There must be a valid key.
  - 2. There must be no road speed.
  - 3. The ELV must be unlocked (and the "unlocked and secured" telegram received by the CAS).
  - 4. The ELV module must be de-energized by the CAS.
  - 5. The start button must be pressed.
- Check that the key holder locks the key in position, and that the steering lock unlocks (an audible "clunk" can be heard when the key is inserted).
  - Note 1: KL15 is not released unless the steering is unlocked, and the CAS has received the "unlocked" telegram.
  - Note 2: The ELV makes three attempts to unlock a whirring sound can be heard at each attempt.

# **WARRANTY INFORMATION**

Not applicable.

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