

# S-60 Barrier Control Board Update

29th August 2018

TTTBLXP078

Issue 1.0

## 1 Applicability

All new S-60 highway crossing barrier mechanisms, and control boards used for these barrier mechanisms.

## 2 Information

Siemens is releasing an updated control board for the S-60 highway crossing barrier mechanisms. The change applies to all control boards manufactured after July 2018, regardless of whether they are supplied as spare parts or installed in a barrier mechanism.

The part number of the new board will be 9000-25540-0001. The previous board had part number 9000-25527-0001.

The updated control board is a direct plug-in replacement. Only the descent time may need adjustment after fitting.

Some Siemens customers have experienced problems with the S60 crossing barrier mechanism, with the barriers failing to raise. This was caused by incorrect control board relay contacts, provided by a previous supplier.

Siemens has since then sourced new relays, which meet the original contact specification. The control boards with the new relays are released as Revision E6. These units have been in service for approximately 2.5 years. We are not aware of any of these boards failing.

Under Siemens continuous improvement program, we have further improved the board. Relay K5, has been replaced with an electronic switch and time delay that eliminates the relay contacts switching motor current. This prevents arc damage to the relay contacts and extends the relay life close to the mechanical life. Furthermore, there is significantly less wear to the motor brushes and the commutator caused by relay contact bounce.

The revised board has been satisfactorily tested to 1 million operations under load. Relay contacts have been visually inspected and showed negligible wear.

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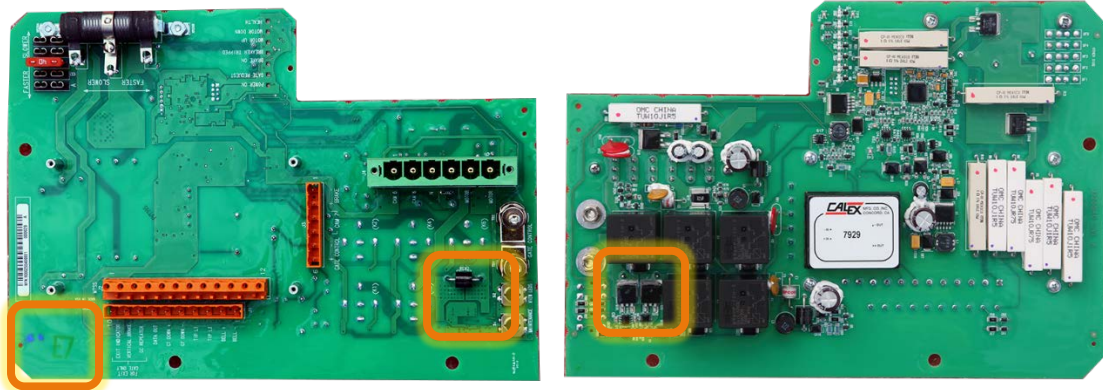
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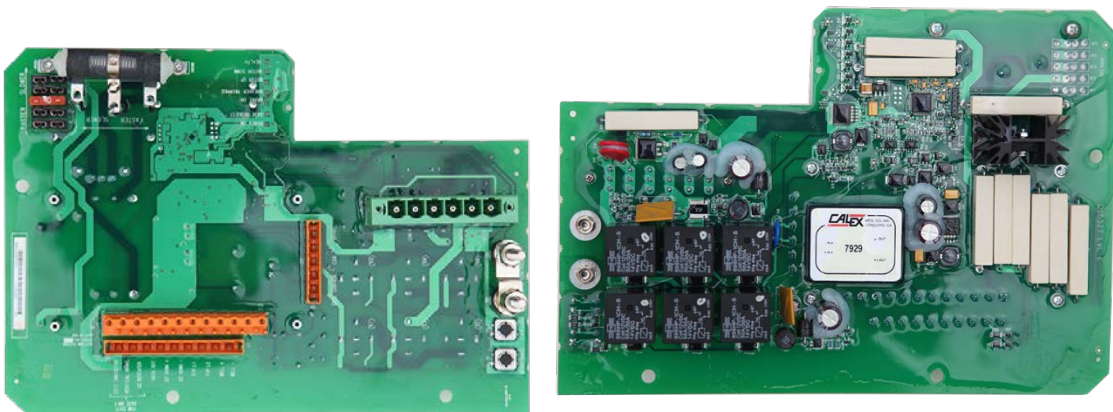
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Figure 1 shows the front and back of the new control board, with the changed area highlighted. The version number "E7" is in the box on the left side of the front view.

Figure 2 shows similar views of the old control board. These were version E6 or earlier.



**Figure 1 New S-60 Control Board, Front and Back**



**Figure 2 Old S-60 Control board**

### 3 What do I need to do?

We will automatically introduce this change when existing stocks are exhausted.

You may need to advise purchasing, stores and maintainers of the change in part numbers and that these are plug-in compatible.

There is no need to replace operational boards in service.

This bulletin fulfils our requirement to advise you of any changes to material or design in safety related products. We don't expect that this improvement of the board will affect type approval. However, we will work with you to update approval, if required.

### 4 Further Information

Please contact your Siemens sales representative, who can arrange for a technical expert to contact you if you require further information.

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