

SB, Lower Belt Guard, LG164, 2022-06

SYMPTOM/DESCRIPTION

In recent months, there have been cases where the screws that attach the lower belt guard to the LG164's reversible compression plate have broken. For all LG Reversible Compaction plates, these screws are size M8. The initial suspicion was that the tool in the assembly line didn't work correctly but a tool check proved otherwise.

For some unknown reason, all the Lower Belt Guards of LG160 (phased out), LG164, LG200 (phased out), LG204, LG300 have screw holes of 12 mm and LG400 has 11 mm holes. The obvious conclusion was that these too big holes allow the Lower Belt Guard to move during the vibration of the plate, widening the holes even more and in the worst case even breaking the affixing screws.



Figure 1:



Figure 2:

As these holes were of such size from day one, we suspected that there must be something else going on here. Investigations led to the conclusion that when the painting of the eccentric housing and the lower belt guard is too thick, the paint cracks around the holes when the screws have been tightened. Due to the bigger holes in the Belt Guards, the screw heads are squeezing over less surface, increasing the contact pressure over a smaller area. If the paint layer is thicker, it would crack under the tightening force. As a result, the screws may become slightly loose. This is what allows the Belt Guard to move when the machine vibrates, to shake up and down and widen these 12 mm holes even more. In a worst case scenario, this would lead to deformation of the holes in the Guard and even to some of the affixing screws breaking.

AFFECTED UNITS

S/N's affected

There's no specific batch of Eccentric housings and/or Lower Belt Guards to point to. There's no way to predict the machines within a range of Serial Numbers that might be affected by this issue.

CORRECTIVE ACTION

As a first measure, the size of the screw holes of the Lower Belt Guards was changed from 12 to 9 mm. This measure should bring down the contact pressure between the screw heads and the holes in the Lower Belt Guard, thus preventing the cracking of the paint even if it is a bit thicker. As a result, the screws shouldn't come loose.

As a second measure, the supplier was contacted regarding the problem that too much paint is leading to.

PROCEDURE

During each service interval or other time when machines are in the workshop, be sure to check the screws. If you come across a loose Lower Belt Guard, tighten the screws whenever possible. If the screw holes in the Lower Belt Guard have already been widened, replace the guard.

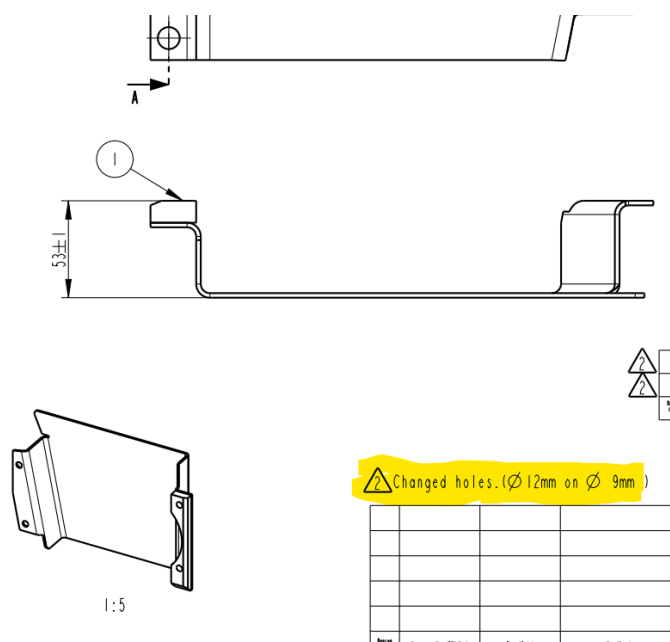


Figure 3:

PARTS INFORMATION

LG164 Lower Belt Guard part number – 594437701

LG204 Lower Belt Guard part number – 594328701

LG300 Lower Belt Guard part number – 594431301

Lower Belt Guards in stock should now be with the new smaller 9 mm holes for screws.

WARRANTY INFORMATION

The normal warranty policy applies.

Revision History

Rev.	Date	Order id.	Description
A	2022-06	00020914	Created