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TB 148

TECHNICAL BULLETIN

INFORMATION ONLY

For the Attention of : Installers, Trade Customers, Training Dept
Date : 16/06/2014
Product : Midilift **SLplus** and **XLplus** Cabin Platform Lifts
Subject : Improvements to sling
Pages : 6

Originator : Stannah Lifts Ltd, Anton Mill, Andover, Hants SP10 2NX 01264 339090

Detail

This bulletin is to inform of a number of design changes to the sling assemblies used on the SLplus and XLplus cabin platform lifts.

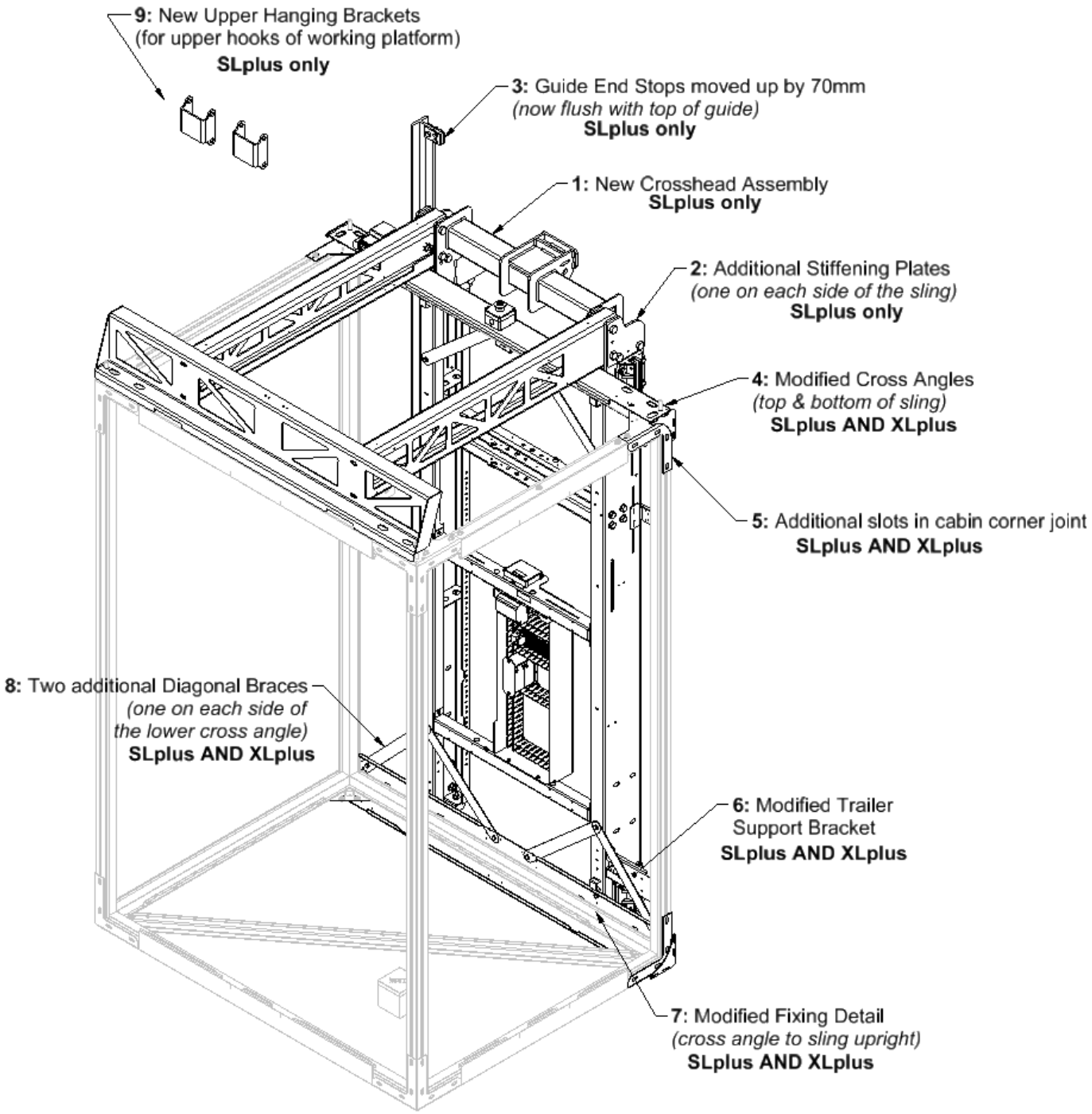
The primary reason for these changes is to increase the strength and rigidity of the sling and cabin assembly in order to increase the scope for some non-standard finishes (i.e. heavier finishes may be possible in some instances) and facilitate future Midilift cabin models with sliding doors.

The improvements are described on the following pages, and are divided in to nine areas of improvement.

- Items 1, 2, 3 and 9 are only applicable to the SLplus (hydraulic cabin)
- Items 4 to 8 are applicable to both the SLplus and XLplus (traction cabin)

These improvements will be introduced in to manufacture on 14th July 2014.

Overview of Sling Improvements (1 to 9)



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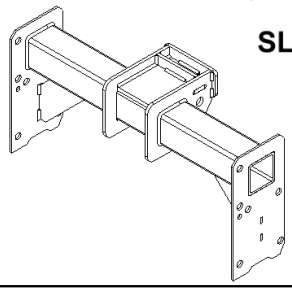
1: New Crosshead Assembly

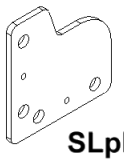
- Reduced weight
- Improved dimensional accuracy
- More compact *(i.e. more clearance above sling)*
- Reduced manufacturing time



SLplus only

2: Additional Stiffening Plates
(one on each side of the sling)

- Strengthens sling
  (to allow heavier cabin finishes or cabin door options on future models)

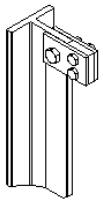


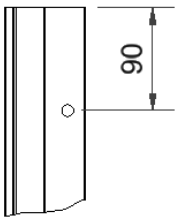
SLplus only

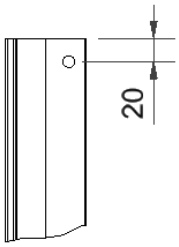
CAUTION! The stiffening plates are NOT to be fitted on XLplus models as they would clash with the bedplate!

3: Guide End Stops moved up by 70mm
(now flush with top of guide)
SLplus only

- End stops moved up by 70mm due to addition of stiffening plates (see '2' above)







Old Arrangement
- manufactured before 14th July 2014
- hole position = 90mm from guide end
(i.e. sling WITHOUT stiffening plates)

New Arrangement
- manufactured after 14th July 2014
- hole position = 20mm from guide end
(i.e. sling WITH stiffening plates)

WARNING!
The guide end stop position must correspond with the version of sling.
To clarify:

- **If the hole is 90mm from the top of the guide rail, the stiffener plates must be ommitted**

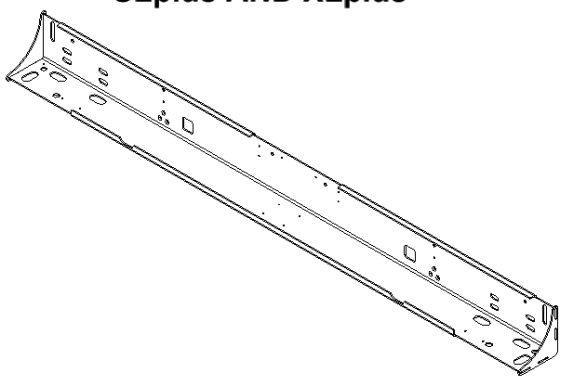
or

- **If the hole is 20mm from the top of the guide rail, the stiffener plates must be fitted to the sling**

FAILURE TO ENSURE THE CORRECT COMBINATION OF END STOP POSITION & SLING VERSION MAY PERMIT THE LIFT TO OVER-RUN IT'S INTENDED ULTIMATE STOP, CAUSING INJURY OR EQUIPMENT DAMAGE.

4: Modified Cross Angles
(top & bottom of sling)

SLplus AND XLplus

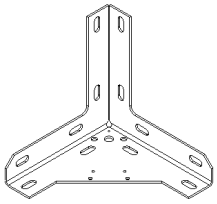


- Profile changed to increase strength
- Welded gussets added at each end to minimise twisting
- Extra fixing slots added to enable cross angle to fasten to the cabin corner joints

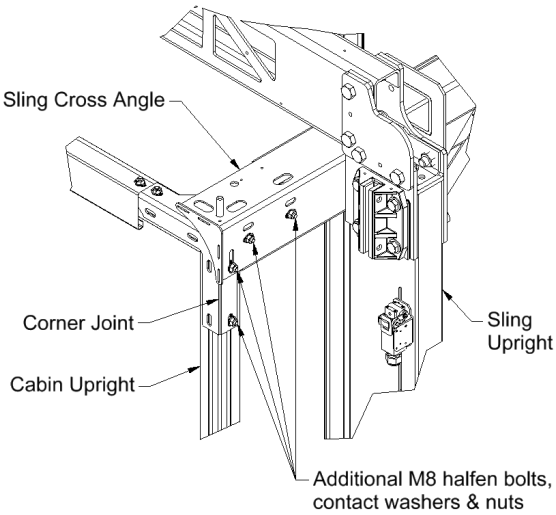
Note: The clearance notches in the mechanical cabin safety edges have been increased to clear the end gussets.

5: Additional slots in cabin corner joint

SLplus AND XLplus



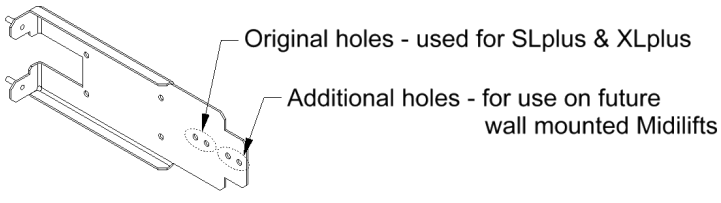
- Extra slots added to enable cabin corner joints to be tied in to the sling cross angles and cabin frame
  (stronger sling to cabin connection)



Typical Detail
(repeated on all 4 corners on the guide side of the cabin)

6: Modified Trailer Support Bracket

SLplus AND XLplus



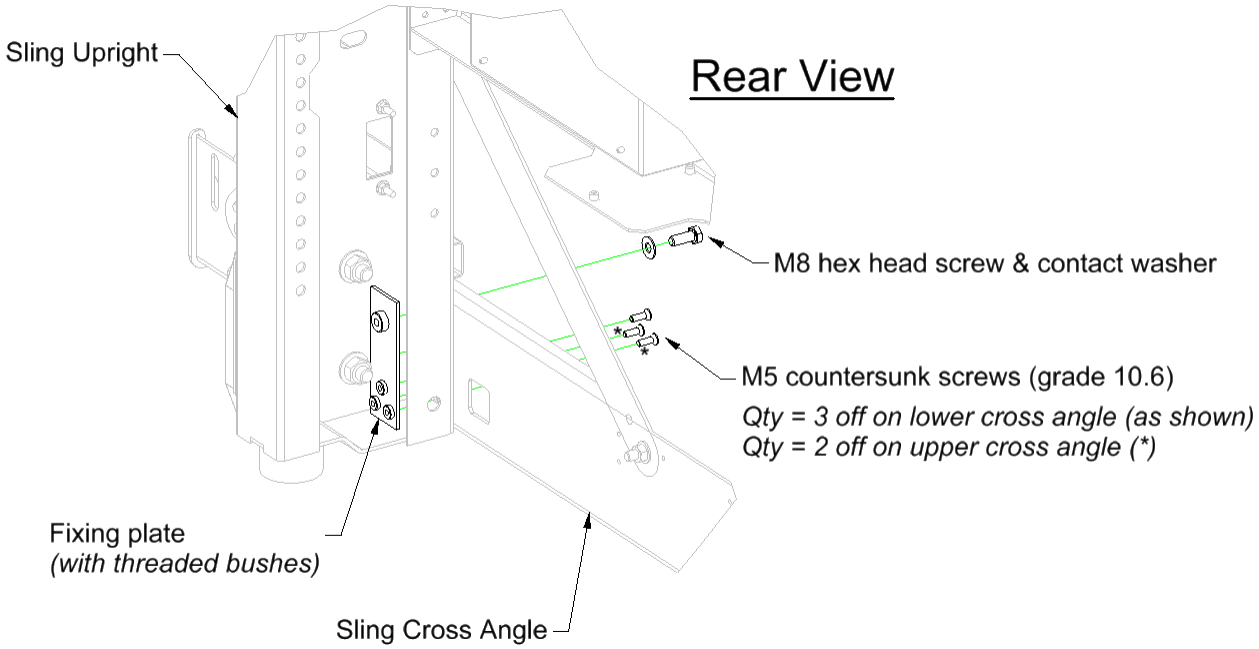
- Made longer and extra pair of holes added

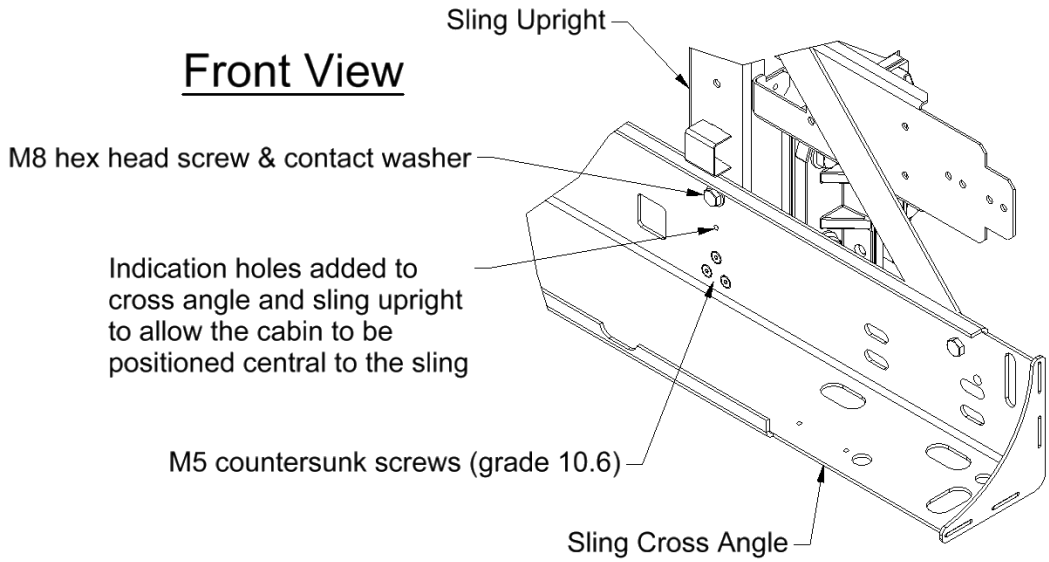
7: Modified Fixing Detail
(cross angle to sling upright)

SLplus AND XLplus

- M5 countersunk screw quantity increased (see "Rear View")
- M5 countersunk screws now Grade 10.6 steel (instead of stainless steel)
- Fixing plate on rear of sling upright (instead of nuts and washers)
- Alignment holes added to permit cabin to be aligned central to the sling without the need for measuring

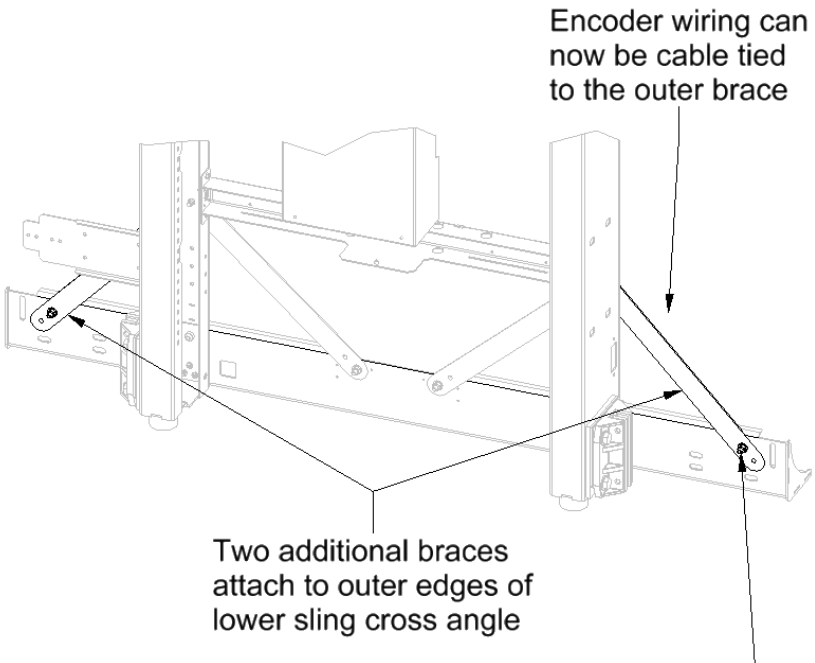
Above changes provide a more rigid connection, distribute the load over a larger area and fixings are easier to install.





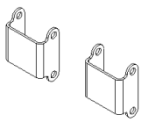
8: Two additional Diagonal Braces
(one on each side of the lower cross angle)

SLplus AND XLplus



9: New Upper Hanging Brackets
(for upper hooks of working platform)

SLplus only



- New component replaces old SLplus brackets
(new version is wider to accomodate additional stiffener plates)

Note: Existing XLplus brackets are still required on XLplus models

Summary

A number of design changes have been made to the SLplus and XLplus sling to improve the strength and rigidity of the assembly for future development/models.

The changes will be introduced in to production on 14th July 2014.