

Author	Release date	Doc. no.	
SLC	12-07-2010	SB-10-013	

SERVICE BULLETIN / BULLETIN DE SERVICE

Lift manufacturer / Fabricant :	CTEC, GARAVENTA CTEC, DOPPELMAYR CTEC, DOPPELMAYR	Fab. Group / Groupe de fabrication :	CARRIERS
Lift type / Type de remontée :	FIXED GRIP & DETACHABLE CHAIRLIFTS, CHONDOLAS, & GONDOLAS	Effective date / Date en vigueur :	December 7, 2010
Supercedes / Remplace :	N/A		

Title: **Manual Change – Carrier Hanger Head Lubrication**

1. Generalities

1.1 Abstract of issue (summary)

Doppelmayr CTEC has implemented a change to the Service and Maintenance Manuals for chairlifts, chondolas, and gondolas. The change affects the required frequency of lubrication of the carrier hanger head bushing. Wherever previously identified as an *Annual* requirement, the interval for lubrication of the carrier's hanger head bushing has been changed to "*Every Three Months*" during periods of operation.*

- The term "Every Three Months" assumes normal annual operating hours of approximately 1,200 hours per year and targets the frequency of lubrication at approximately 600 hour intervals during periods of operation. It is important to note that, as the annual operating hours increase (beyond 1,200 hours per year), the frequency of lubrication should maintain approximately 600 hour intervals during periods of operation.
- Equipment operating less than the normal annual operating hours of approximately 1,200 hours per year is still required to maintain the "Every Three Month" interval for lubrication of the carrier hanger heads during periods of operation.

Additionally, Mobil XHP-222 has been identified as an approved lubricant. Mobil XHP-222 can be purchased through Doppelmayr CTEC via part number 10407430. A change to this lubrication type is not required and is presented as information only.

1.2 Reason for release (summary)

Best maintenance practices require that, to help preserve the surface integrity of the grip hanger shaft and the carrier hanger bushing(s) and to keep the forward/aft swing motion of the carrier functioning as designed, more frequent lubrication intervals are required.

2. Scope

2.1 Generalities

The lubrication interval for the chairlift, chondola, and gondola hanger head bushing(s) has been changed *from Annual to "Every Three Months"*.

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2.2 Affected model, type, parts

Chairlifts, chondolas, and gondolas manufactured by CTEC, Garaventa CTEC, Doppelmayr CTEC, and Doppelmayr with carrier hanger heads supplied with lubrication fittings are affected by this Bulletin.

Some carrier models were supplied with hanger head bushings requiring lubrication only upon insertion of the grip (therefore no lubrication fittings). The identified Service and Maintenance Manual requirements for non-lubricated carrier hanger bushings *are not* affected by this Bulletin.

3. Action to be taken and completion date / Actions à entreprendre et délais de réalisation

(Inspection, modification, replacement, NDT, part, manual revision, procedural change)

This Bulletin represents a change to the Service and Maintenance Manuals of chairlifts, chondolas, and gondolas as previously described and must be incorporated within the existing Manuals. Implementation of this change is required beginning the winter operating season 2010/2011.

Compliance with the lubrication intervals must be documented in the area's maintenance records. Area's internal procedures, where existing, should be changed to reflect this new lubrication interval requirement.

Important maintenance tips:

- As annual operating hours increase (beyond 1,200 hours/year), the frequency of lubrication should maintain approximately 600 hour intervals during periods of operation.
- When applying grease to carrier hanger heads, it is important to relieve some weight of the carrier to assure that lubrication reaches the normal load area of the bushing(s).
- Methods for relieving some of the carrier weight include slightly lifting the carrier weight vertically or tilting the carrier to the side during the application of the lubricant. *The heavier the carrier – the more important this process becomes!*
- Lubrication should be applied until grease seeps out between the grip shaft and bushing.
- Follow the application of the lubricant with a fore & aft swing of the carrier to further help disperse the lubricant.
- Clean purged grease to avoid dripping upon equipment or passengers.

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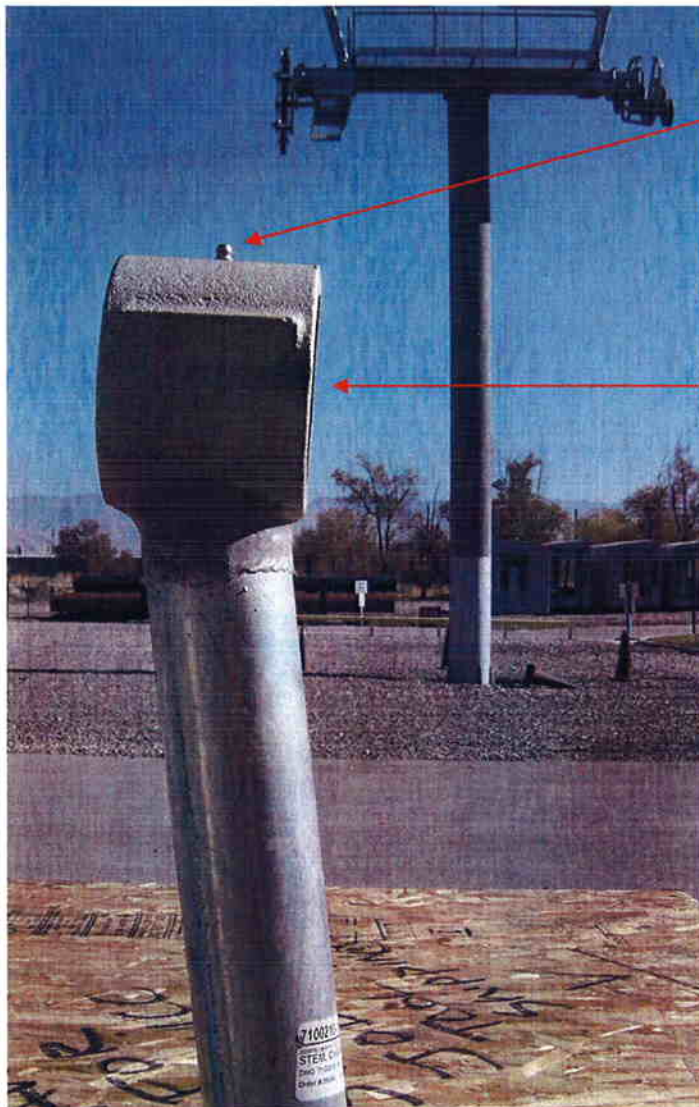
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4. Detail of issue / Details

Text, drawings, schematics

Carrier Hanger (typical*)

*actual size and appearance
will vary per specific design



Grease fitting (typical*)
*actual location will vary per
specific design

Carrier hanger head
bushing & grease cavity
(typical*)
*actual size and appearance
will vary per specific design