

REPLACEMENT OF COMPONENT STRUCTURAL EVALUATION

Dealer/ARF:	MPS Australia	Issue Date:	2/10/2026
Contact name:		Customer:	
Description of damage:	Base boom section top channel has non-repairable distortion exceeding manufactures tolerance		
Crane manufacturer:	Grove	Component Part #	2174910142
Crane Model:	RT700E	Manufacturing Code	1J1C054350J
Crane Serial Number:	228820	SM Ticket #	SR-00050124

EVALUATION:

The subject component has been evaluated and determined to be unusable as-is and requires replacement. It is Manitowoc's assessment that the component cannot be repaired without adversely affecting the safe operation and capacity of the crane. Any such repair would be considered unauthorized and an unacceptable modification.

REGULATORY REQUIREMENTS:

OSHA stated in the preamble published for Subpart CC that, "Repairs or adjustments are meant to restore equipment to original design specifications and safety factors. Otherwise, OSHA considers the maintenance activity performed a **modification** of the equipment." Additionally, in accordance with OSHA regulations concerning crane ownership and operation, specifically 29 CFR Section 1926.1434(a)(1)(i), any **modifications** or additions made to any (*Manitowoc*) crane which affect the capacity or safe operation of the crane must be reviewed and approved (*authorized*) by the manufacturer (*Manitowoc*).

REASON FOR REJECTING A REPAIR AUTHORIZATION:

Due to the amount of deformation to the base section top channel, any conceivable repair would not reproduce the plate material properties and safety factor of the original design.

This component must be removed from service as the evaluation indicates that the component does not meet the design properties/conditions and is not repairable in compliance with approved Manitowoc instructions.

