





Technical Bulletin No: 16-2015



Title:	Excavator and Dumper TOP / ROPS Locking Pins / Bolts
Priority	Red – Audit Rating: Non-Conformance-Major
Legislation:	PUWER, HASWA S6
Brief Description:	Excavators equipped with hinged or demountable TOPS / ROPS frames must have hardware to original equipment standard fitted as they are safety critical
Equipment Affected:	Micro, mini excavators and dumpers with hinged or demountable TOPS / ROPS Frames: JCB 8008 / JCB 8018 CTS / Kubota K008 / Takeuchi TB108 / Yanmar SV08 / Thwaites / Terex Dumpers

During SafeHire audits it has been identified that clients often return micro excavators and dumpers with the TOPS / ROPS hinge pins or demountable frame fasteners missing. Replacement with non-standard hardware is a risk to the equipment users and hire business. Bolt / pin tensile strength (grade) is critical and manufacturer genuine parts should be specified including suitable clips or retaining nuts.

JCB 8008 – low grade coach bolt used to replace missing fastener	JCB8008 – fastener missing
	
Kubota K008 – Original equipment – pivot pin and retaining R Clip	Kubota K008 – Pin replaced with bolt and locknut
	
Recommended Actions:	<ul style="list-style-type: none"> • Ensure ROPS / TOPS condition and hardware are checked as part of pre-hire checks • Ensure delivery staff check for missing items at point of collection. • Like for like replacement should be carried out for any safety critical items. <p>Note: TOPS = Tip-Over Protective Structure - ROPS = Roll-Over Protective Structure</p>
Circulation:	workshops, mobile service and management team

Title:	Micro Excavator ROPS / TOPS Frame	Bulletin Number:	16-2015	Creation Date:	19/11/2015
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