

ROPS (Rollover Protective Structure) and FOPS (Falling Object Protective Structure)



MSHA 1009 (BP-9)

A ROPS/FOPS design is required to be certified by the manufacturer to comply with specific structural requirements.

The ROPS/FOPS system includes the structure, its mounts to the main frame, and the main frame.

Any repair or unauthorized modification made to ROPS/FOPS voids the certification unless specifically approved by the manufacturer or a registered professional engineer familiar with ROPS and FOPS.

ROPS/FOPS shall be maintained in a condition that meets the performance requirements applicable to the equipment.

Bent, deformed, or broken ROPS/FOPS structure components, including mounting brackets, shall be recertified by a registered professional engineer.

ROPS/FOPS should be inspected daily for damage or loose bolts.

Every 1000 hours, or as specified by the machine or ROPS/FOPS manufacturer, the mounting bolt torque must be checked, and any missing or broken bolts must be replaced with manufacturer's specified bolts.

Arrive Home Alive

U.S. Department of Labor
Mine Safety and Health Administration
Visit our website at www.msha.gov

February 2006