





Risk Control Table

Risk	Control Measure ( how / who / time frame)	Implementation date	Review Date
Electrocution	SOP, Decals, "Dial before you dig", "Look up and live"	2/7/2006	On Going
Slipping/tipping from Mounting/Dismounting	Hand Rail, Non Slip Mat	2/7/2006	On Going
Engine noise	Complies to current regulations	2/7/2006	On Going
Eye damages from dust/debris	PPE, SOP	2/7/2006	On Going

**3. Review**

The above Risk Assessment to be reviewed during the life of the product if an upgraded model is introduced or information is obtained about a previously unknown hazard.

## 2. Risk Control

Risk Severity Table

Consequence	Probability	
	L	UL
S	High	Medium
M	Medium	Low

### Implementation of Risk Control:

Where a risk to health and safety has been identified utilizing the Risk Severity Table, controls to eliminate or minimize the risk are required.

The control is to be selected from the following hierarchy of controls:

- Level 1 Eliminate the hazard
- Level 2 Minimize the risk from the hazard  
If the hazard cannot be eliminated, the machine should be constructed to minimize the risk *as far as practicable*.
- Level 3 Provide back up controls  
Provided levels 1 and 2 have been exhausted, back up controls include administrative controls governing work practices (eg operator's manual safe working instructions) and personal protective equipment.

### Risk Control Table

Risk	Control Measure ( how / who / time frame)	Implementation date	Review Date
Entanglement in Tracks	SOP in manual, Safety Decals, Travel Alarm, Operating Clearance Zone	2/7/2006	On Going
Machine Roll Over	Certified ROPS/FOPS, SOP	2/7/2006	On Going
Crushing by Boom or tracks	SOP, Safety decals, Operating Clearance Zone, Travel Alarm and horn	2/7/2006	On Going
Shearing from Blade	SOP, Safety decals, Operating Clearance Zone,	2/7/2006	On Going
Striking by Boom or Machine	Boom Swivel Pedal lockout, Operator control locks, horn	2/7/2006	On Going



# RISK CONTROL MANAGEMENT PROCEDURE

**Product Description** Excavator      **Series** KX Series  
**Model** KX41-3V      **Serial No.** 30709  
**Attachment/s**      **Revision** A  
    **Date** 02/07/2006  
**Date of inspection**      **Location**  
**Inspected by** Benjamin Binns      **R+D Manager**  
    Paul Watt      **Senior Divisional Manager**  
**Signature**

Select unit type with

SAMPLE UNIT

PRODUCTION UNIT

Select Risk type with

Operational

Maintenance

## 1..Hazard Analysis and Risk Assessment

HAZARD	RISK SOURCE	SAFETY MEASURE	OCCURANCE	
			Probability	Consequence
Entanglement	Fan/ Fan Belt	Guards, Decals, SOP (Do not open hood with engine running)	UL	S
Crushing	Loss of hydraulic pressure	SOP (lower boom and blade to ground before conducting any maintenance)	UL	S
Cutting, Stabbing, Puncturing				
Shearing				
Friction	Hot liquids, Exhaust	SOP, Decals, Exhaust heat shield	UL	M
Striking	Engine Hood	Hood Support strut	UL	M
Electrical	Battery maintenance	SOP, Battery manufactures maintenance procedures	UL	M
Slipping, Tripping, Falling				
Noise				
Manual Handling				
Other hazards	Machine Movement	Park on hard level surface, lower boom and blade to ground, stop engine and remove keys before beginning any maintenance.	UL	S

**Probability Scale**  
 L = likely  
 UL = unlikely  
  
**Consequence Scale**  
 S = major injury/fatality  
 M = minor injury



## 2. Risk Control

Risk Severity Table

Consequence	Probability	
	L	UL
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Fan/ Fan Belt	SOP in manual, Safety Decals, Fan guard	2/07/2006	On Going
Hydraulic Pressure Loss	SOP in manual	2/07/2006	On Going
Hot liquids	SOP in manual, Safety Decals, Exhaust heat shield	2/07/2006	On Going
Battery Maintenance	Battery Manufactures maintenance procedure	2/07/2006	On Going
Machine movement	SOP, Park on hard level surface, lower boom and blade to ground, stop engine and remove keys before beginning any maintenance.	2/07/2006	On Going

Risk Control Table

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Engine Hood	Hood Support Strut	2/07/2006	On Going

### 3. Review

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