

Applicable to the following Skyjack models:

MODEL	SERIAL RANGE	
	From	To
SJ6826RT	37 000 001	37 003 468
SJ6832RT		

This preliminary hazard identification document has been provided to assist in the completion of a site-specific risk assessment. The following items are to be included in the site risk assessment:

Hazard No.	Hazard Description	Risk control measures already implemented	Proposed supplementary risk control measure
1	General		
1.1	Persons could be injured when following a poor system of work in relation to the operation of this device	Operating manual provided detailing specifications, limitations and residual hazards associated with the operation of the machine.	Prepare a documented system of work having regard to the operating specification and limitations as detailed in the operating manual. Verify that the procedure (including maintenance) covers all modes of operation of the Unit and is a practicable solution. Instruct and train the operator in its use.
1.2	Persons could be injured if the device is not suitable for the required task	Machine specifications are included in the operating manual.	Ensure that the unit is adequately rated in terms of capacity, height and reach, rated inclination and mass; having regard to the required task, the site conditions and the environment. Source another machine if the specifications do not match the requirements for the task.
1.3	Persons could be injured or injure others when operating the unit without sufficient information, instruction, training and supervision.	Operating manual provided. Warning in manual.	Ensure that all standard work procedures (SWP's) are effectively implemented. Ensure that the operator(s) have read and understand the training and instructions (which must include the Manufacturer's and local information).

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1.4	Injury as a result of site specific hazards.	Warning in manual regarding performing site check prior to machine operation.	<p>Ensure operators are able to identify particular hazards that may be encountered at the site and implement actions to ensure that they are addressed by appropriate means.</p> <p>Ensure operators conduct a site hazard assessment before use.</p> <p>Ensure operators implement appropriate systems to eliminate the hazards or adequately control the risks associated with the hazards identified.</p> <p>Ensure operators feedback information relating to new hazards identified so they may be reviewed and measures implemented in a training package.</p> <p>Ensure that if operators are uncertain how to address a particular site hazard that they seek advice from a competent person.</p>
1.5	Persons could be injured if the unit is operated during storms.	Warning in manual	Ensure that the unit is not operated during storms or if storms may arise when carrying out the required task
1.6	Persons could be injured if equipment is operated while not wearing appropriate PPE.	Warning in manual regarding the use of PPE. Marked travel restraint anchor points fitted to platform. Safety Decal fitted indicating harness anchor points.	<p>Provide specification for appropriate PPE including gloves, safety glasses, hard hat and safety footwear as appropriate.</p> <p>Ensure that operators understand that the anchorages are restraint anchorages and not fall arrest.</p>
1.7	Injury due to "horse play" or inappropriate use	Warning in manual stating that "stunt driving & horseplay" are prohibited.	<p>Ensure operators do not engage in "horse play" or stunt driving.</p> <p>Ensure that only properly trained personnel use EWP.</p>
1.8	Injury due to unauthorised use.	Unit provided with key, preventing operation if key is not present. Instructions in manual regarding not leaving the EWP unattended with the key in the switch.	<p>Ensure that the unit is locked before leaving unattended.</p> <p>Ensure that the machine is not lent or sub-hired to any unauthorised person.</p> <p>Ensure that only authorised personnel use the EWP.</p>

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1.9	Personnel injured due to missing or illegible safety signs.	A check of safety decals is included in the pre-operational inspections.	Conduct pre-operational checks as described in manual. Maintain signs and replace as necessary.
2	Structural Failure		
2.1	EWP could collapse as a result of design or manufacturing fault.	Designed, manufactured and tested by SKYJACK to the requirements of the design standards and directives in the country where the EWP is sold. Specifications provided in operating manual.	Ensure that the unit is registered with SKYJACK AUSTRALIA PTY LTD. Periodically check for the existence of routine Safety Alerts that may be issued by the manufacturer or the representative. Routinely inspect the EWP by a competent organisation external to operator. Monitor local Hazard Alerts and Incident Safety Notices and examine these to determine if they are or could be relevant to the EWP.
2.2	Structural failure due to influences from load combinations not taken fully into account	Specifications provided on serial plate. Safety placard on the platform detailing load combinations which are acceptable. Specifications provided in operators manual. Slope sensor fitted which prevents operation on slopes which exceed the limits of the EWP. Wind load ratings stated on platform label.	Ensure that the machine is only operated within the specification detailed in the operating manual and in accordance with industry standards and AS2550.10. Ensure each person required to operate the machine has been trained in the operation of the unit and assessed in by a recognized training center. Ensure the machine is isolated to prevent unauthorised use at the end of each work shift. Verify expected loading and confirm it is less than Rated Capacity. Verify operating slopes. Verify wind loads anticipated in service. Ensure that the limits for the number of personnel permitted in the platform outdoors are adhered to.
2.3	Structural failure due to dynamic loading	Lift & drive speeds provided in manual.	Ensure that the system speeds are set to the specifications provided in the manual.

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2.4	Structural failure due to operation on a slope greater than the design slope	Slope limitations provided on serial plate. Warning provided in manual prohibiting operation on slopes. Tilt alarm and interlock fitted which provides an audible warning that the slope is excessive and prevents movements (other than lowering) on slopes which exceed the design limits.	Ensure the EWP is operated within the rated slope limitations listed on the serial plate.
2.5	EWP could collapse as a result of poor structural/mechanical condition due to fatigue/wear	Machine design extensively tested and validated for the effects of fatigue. Pre-operational checks in manual. Note included in manual that checks of the SKYJACK website should be undertaken for service bulletins prior to performing quarterly or annual inspections.	Conduct pre-operational inspection in accordance with procedures outlined in operating manual before use. Inspect the machine in accordance with the instructions outlined in the service manual. Undertake major inspection per AS2550.10 at end of design life.
2.6	Persons could be injured by the unit if operating in poor mechanical or hydraulic condition.	Preoperational checks in manual. Service and inspection log provided with machine and in manual. Service & parts manuals prepared by manufacturer.	Ensure that the unit is checked, repaired and maintained by appropriately trained/qualified and experienced personnel in accordance with the checklists contained in the operation manual. Modify maintenance program according to use. Instruct the operator/competent person to report all faults to management. Ensure all inspections, servicing, replacement of parts and modifications are entered into logbook. Use manufacturer-specified replacement parts.

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2.7	Due to accidental impact – unintentional activation of controls	Safety control (constant pressure switch) provided which must be held for any EWP movement via joystick control. Controls more than 50mm below top guard rail. Emergency stop switch located at both platform and ground controls. Control switches automatically return to neutral when released. Instruction in manual to press emergency stop button after the desired location is reached.	Implement system to ensure adequate reporting of all incidents in relation to machine. Ensure that all incidents in relation to the machine are reported and acted on. Ensure that Emergency Stop switch is depressed when the platform is stationary.
2.8	Failure due to unauthorised alteration or interference.	Warning in manual that if any unauthorised modifications have been performed on EWP it should not be used. Warning in manual that written permission must be sought from SKYJACK before modifying the EWP.	Ensure no structural components of machine are removed/modified without written consent from SKYJACK's engineering department. Seek advice for all modifications/repairs considered during life of machine. Ensure that no additions or alterations are performed on the platform without written approval from SKYJACK's engineering department.
2.9	Structural failure because of loose or missing fasteners.	Checks for loose or missing fasteners included in manual as part of daily inspection.	Ensure that the unit is checked, repaired and maintained in accordance with the checklist contained in the operating manual, by a competent person. Ensure results are entered into the logbook.
2.10	Structural failure due to loose or missing pivot pins	Checks of pins in scissor stack and folding railing are included in pre-operational inspection list.	Ensure that pre-operational inspections are performed and the results documented. Perform regular maintenance checks as listed in the operating and maintenance manuals.

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2.11	Persons could be injured as a result of fatigue failure – Road Transport.	Inspection procedures provided and included in pre-operational inspection list. Periodic inspection program established as per AS2550.10. Tie-down points provided on EWP chassis.	Inspect the machine in accordance with the procedures specified in manual. Ensure the operators are instructed to properly stow unit prior to transportation. Ensure the platform is restrained during transportation.
2.12	Injury as a result of collision with other vehicular traffic.		Ensure a traffic management system is enforced, should the EWP be exposed to vehicular traffic.
3	Overtipping		
3.1	Persons could be injured as a result of instability or overturning – on excessive slope	Tilt alarm and interlock installed on EWP. Instructions included in operating manual regarding site checks prior to deploying EWP.	Ensure that the EWP is operated within the rated slope limitations specified on the serial plate. Train operators in respect of proper siting and precautions necessary to ensure stability. Audit work practices accordingly. Ensure machine is stability tested after modifications to the body or unit have been performed.
3.2	Persons could be injured as a result of instability or overturning	Stability Tests in accordance with AS1418.10. Tilt alarm and interlock fitted to machine.	Train operators in respect of proper siting and precautions necessary to ensure stability. Audit work practices accordingly. Ensure machine is stability tested after modifications to the body or unit have been performed.

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3.3	Overturning due to collapse of support surface	Additional notes in AS2550.10. Maximum wheel loads identified on EWP serial plate. Site checks included in operating manual. Floor loading pressure for EWP's included in operating manual. Safety decal on platform which lists hazards which have been identified.	Ensure the unit is not set up on rough, soft or otherwise hazardous surfaces. Seek advice regarding ground/surface capacities as necessary.
3.4	Overturning as a result of setting up on uneven surfaces	Site checks included in operators manual. Safety decal on platform which lists hazards which have been identified. Tilt alarm & interlock fitted.	Ensure that operators are trained relating to proper setup, including the necessity to set up on flat surfaces within the limits specified both fore and aft and sideways on the serial plate. Ensure operators follow these requirements.
3.5	Overturning due to overloading the platform	Unit stability tested in accordance with the requirements of AS1418.10. Specifications provided in manual. Rated load indicated on platform and data plate.	Ensure that the rated capacity is not exceeded.

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3.6	Overturning due to high wind loads	Unit designed and stability tested for a maximum wind speed as stated on platform label, warnings in manual regarding the fitting of bluff bodies which may increase loads due to wind. Specifications in operator's manual regarding the restrictions on the number of persons permitted in the platform during outdoor operations.	Ensure that bluff bodies are not carried or fitted to the platform. Ensure that the EWP is not operated in high wind gusting above the rated speed. Monitor wind forecasts on a regular basis. Ensure that operators observe the restrictions on the number of persons permitted in the platform.
3.7	Pushing or Pulling objects with platform.	Warning provided in manual outlining the EWP is not to be used as a crane. Warning in manual not to exceed the rated side load. Maximum horizontal load rating specified in manual and decals fitted to machine.	Ensure that operators do not exert lateral force greater than that specified. Ensure that operators do not push or pull objects with platform.
3.8	Due to tyre failure	Pneumatic or foam filled tyres fitted on EWP. Warning in manual to inspect tyres prior to use. Inspection instructions included in operating manual.	Check tyre condition as per operating manual.
3.9	Due to incorrect tyre specification	Specification and warning provided in manual.	Ensure that only the correct specification tyres are used.
3.10	Due to operation on a truck or similar device	Warning in manual prohibiting the use of the device on the back of a truck, forklift or other similar device.	Ensure that the unit is only operated on firm ground capable of adequate capacity and never on vehicle or similar.

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3.11	Due to loss of wheel	Pre-operational inspections include checking wheel nuts. Warning in manual regarding checking wheel nuts.	Ensure that pre-operational inspections are conducted as per manufacturer's checklist.
4	Control malfunction & uncontrolled motions		
4.1	As a result of control malfunction.	Pre-operation checks included in manual. Emergency stop switch fitted at upper control station.	Ensure prestart inspection is performed in accordance with the manual. Ensure that control cubicle is clear and free of tools and equipment that could jam controls. Verify condition and operation of controls before each shift. Check operation of Emergency-stop switch every day before use.
4.2	Due to contamination of hydraulic system.	Simple robust system with electric powered pump actuated on demand directly by controls. Suction strainer provided.	Ensure the hydraulic system is maintained by competent persons employing proper practice.
4.3	Accidental knocking of controls	Constant pressure switch provided which must be pressed for controls to be activated. Emergency stop provided. Instruction in manual to press emergency stop button when the desired work location is achieved.	Maintain control console. Ensure that the enable switch is tested per the manual pre-operational instructions. The emergency stop is pressed when the platform is stationary.
4.4	Control conflict using emergency power system	Manual lowering does not rely on a power source.	Ensure operators are familiar with the emergency lowering procedures prior to operating the EWP. Ensure that ground personnel are always available to perform emergency operations if required.

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4.5	Due to safety switches being overridden	Warning in manual that an operator should not use a machine which has had the safety switches altered or disabled. Safety label fitted to EWP stating “do not alter or disable limit switches or other safety devices”.	Ensure that safety devices are not tampered with.
5	Hydraulic		
5.1	Failure of cylinder or hose resulting in platform movement	Checks in manual regarding cylinder inspection prior to use. Cylinders fitted with load holding valves, maintenance and inspection procedures for yearly intervals detailed in manuals of load holding valves and hydraulic cylinders.	Ensure that the machine is withdrawn from service and repaired if the platform position is not maintained or there are signs of hydraulic leaks.
5.2	Injury as a result of a high pressure hydraulic leak	Hydraulic components sourced from reputable suppliers.	Ensure that personnel are properly trained and aware of the hazard.
6	Crushing/Trapping Hazards		
6.1	Crush injury as a result of operation – either travelling or raising.	Pictorial label fitted to machine indicating the potential of crush injury. Warning in manual regarding the avoidance of overhead obstructions. Movement is limited to either vertical motion or drive motion.	Ensure that operators, observe the surroundings and travel at appropriate speeds. Ensure that personnel keep all body parts inside platform. Ensure that ground personnel are available to observe and take corrective action if necessary. Ensure they are familiar with emergency operation procedures.
6.2	Crush injury due to inadvertent operation.	See section 4.	

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6.3	Ground personnel crushed while machine is operating	Ground controls only provided for emergency use. Warning in manual to be aware of blind spots when operating the aerial device. Motion alarm fitted.	Ensure that personnel remain clear of the platform when in use. Ensure that operators remain aware of the location of all personnel and obstacles on the job site while operating the aerial device.
6.4	Persons crushed using emergency retrieval.	Instructions provided in manual. Tools provided where required. Pre-operation inspection listed in manual.	Ensure that the instructions in the manual are followed. That all tools necessary to effect emergency retrieval are stored and maintained on the unit.
6.5	Persons exposed to vehicular traffic.	See 2.12 above.	Implement a traffic management system
6.6	Persons crushed while performing maintenance.	Maintenance support fitted. Warning decal fitted of danger of being crushed by scissor mechanism during maintenance.	Train operators to be aware of these hazards. Ensure maintenance personnel always use the maintenance support when performing maintenance on an elevated scissor mechanism.
7	Slips, trips, falls		
7.1	Falling from the platform	Lanyard attachment points provided. Guard rails fitted in accordance with AS1418.10 requirements. Warning in manual for operators to stay within the guard rails. Non-slip floor surface provided. Guard rails provided. Instructions in manual regarding the proper installation of the folding rails and checks for the locking pins for the guard rails.	Ensure that personnel do not climb on the guardrails. If required by jobsite, instruct operators to wear harness when in the platform and to attach the lanyard to the anchor point provided. Audit use. Ensure that the guard rails are properly installed as per instructions provided in manual.

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7.2	Stepping out of elevated platform	Warning in the manual regarding risk of exiting the platform at height. Refer to requirements per AS2550.10, see clause 5.9 and figure 5.9(B).	Ensure that operator egress at heights is prohibited unless in an emergency and there is a safe means to do so. Ensure that the operator does not egress from the basket at height unless secured via a twin lanyard assembly to a secure anchor point on a fixed structure. Refer to requirements per AS2550.10, see clause 5.9 and figure 5.9(B).
7.3	Use of step ladders or stools in platform	Warnings provided in manual.	Ensure that operators do not use any means to gain additional height. Ensure the correct machine is used for the particular task at hand.
7.4	Falling while performing maintenance checks.	Maintenance checks able to be performed at ground level.	Ensure that appropriate equipment is used during maintenance where access at height is required.
7.5	Fall while accessing the platform.	Ladder provided. Warning in manual regarding the use of three points of contact while accessing and egress from the platform.	Ensure area is clear of slick surfaces.
8	Falling Objects		
8.1	Ground crew or passerby being struck by falling tools or objects	See AS2550.10. 100mm high kick plates provided on platform. Platform floor does not have large openings.	Barricade area from public access. Ensure that materials are not supported on the guardrails or exceed the confines of the platform.
9	Electrical Hazards		
9.1	Persons could be injured due to contact or approach to live electrical apparatus.	Warning in manual and minimum approach distances listed as per AS2550.10 requirements.	Ensure operators are familiar with this hazard. Ensure operators conduct a site inspection & identify overhead conductors prior to commencing work.
10	Fire or Burns		
10.1	Work in an explosive atmosphere.	Warning in manual regarding operating machine in explosive or dangerous environments.	Ensure unit is not used in a hazardous environment.

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10.2	During battery maintenance	Note in manual regarding the danger of explosion near batteries.	Ensure that battery maintenance is performed by competent persons in accordance with established SWP's.
11	Driving Transport & Handling		
11.1	Injury as a result of accumulated deterioration during long term storage.		Ensure that the requirements listed in the manual are performed before returning the unit to service.
11.2	Injury from unsecured vehicle	Instructions in manual regarding transportation of EWP. Tie-down points provided on EWP chassis.	Ensure that the unit is secured in accordance with the requirements in the manual.
11.3	Injury loading/unloading from vehicle	Warnings and instructions provided in manual.	Ensure that the loading ramps are adequate to support the machine and the gradient is less than the maximum gradeability. Ensure that the transport vehicle and ramps are secured to prevent rolling/shifting. Ensure that personnel who are responsible for loading & unloading the EWP from vehicles are properly trained for the task.
11.4	Lifting the unit	Machine mass provided on serial plate. Machine mass listed in specifications. Lifting points provided and identified on EWP chassis.	Ensure that only the designated lift points are used during lifting and that all rigging is appropriate for the task. Ensure that the EWP is fully lowered and any extendible platforms are fully retracted.
12	Maintenance		
12.1	Injury during hydraulic maintenance from pressurized sources	See 5.2 above.	Instruct persons to follow established SWP's relating to hydraulic maintenance.
12.2	Strains/sprains when removing or performing certain maintenance aspects of the Unit.		Establish appropriate work procedures for all anticipated maintenance issues arising. Periodically review these SWP's.

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12.3	Persons may be injured as the result of poor maintenance and/or adjustment procedures.		Ensure maintenance is performed as per Manufacturer instructions. Ensure that the unit is tested by a competent person prior to being returned to normal service after repairs and/or adjustment of critical components or systems.
12.4	Persons injured handling heavy or unsupported items		Instruct personnel in respect of proper maintenance procedures including the necessity to support items during maintenance.
12.5	Persons injured due to exposure to pinch points/shear points	Safety labels fitted to EWP	Instruct personnel in respect of proper maintenance procedures.
12.6	Repair personnel crushed by falling platform during maintenance	Maintenance support fitted. Warning decal fitted of danger of being crushed by scissor mechanism during maintenance.	Ensure personnel are trained in correct repair procedures.
13	Emergency Procedures		
13.1	Injuries exacerbated as a result of incorrect emergency retrieval procedures	Instruction in manual. Instruction decal fitted EWP. Simple manual lowering system.	Ensure that persons are available at ground level and are familiar with the operation of the controls to effect retrieval.
13.2	Injuries exacerbated as a result of insufficient communication procedures or equipment.		Establish and audit routine emergency procedures. Ensure that all operators are equipped with portable communications equipment where necessary. Establish protocols and procedures to ensure a timely and appropriate response in emergencies. Ensure all operators report in when attending site and on a routine basis thereafter.

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13.3	Injuries exacerbated as a result of working solo.		Ensure that workers do not work solo. Establish protocols and procedures to ensure a timely and appropriate response in emergencies. Ensure all operators report in when attending site and on a routine basis thereafter.
14	Other		
14.1	Due to failure to observe or rectify safety upgrades from manufacturer	Note included in manual that checks of the SKYJACK website should be undertaken for service bulletins prior to performing quarterly or annual inspections.	Ensure that the owner of each machine is registered with the manufacturer. Periodically check the status in respect of safety bulletins or upgrades applying to the machine. Ensure that safety upgrades provided by the manufacturer are implemented. Ensure the manufacturer is advised when the machine is disposed of.
14.2	Noise	Sound pressure level does not exceed 96 dBA	Ensure that if noise exceeds acceptable levels that either ear protection is worn and/or the operators are removed from the noisy environment.
14.3	Persons injured due to unrecognized hazard.	Preliminary Hazard ID provided.	Update hazard ID as necessary, or no later than required by governing legislation. Implement Risk control measures as necessary having regard to the hierarchy of control measures available.