


Manufacturer	AICHI	
Applicable Models	5SDK5, 5SDK8, 5SDK9, 5SDK10 and 5SDK11	
Model Type	SKID STEER LOADER - WHEELED	
Serial Number		
Model		

Description	Wheeled skid steer loaders powered by internal combustion engines and designed for small excavation tasks with limited access.
Material Structure	A steel framed, internal combustion powered loader with a hydraulic boom arm which allows the addition of a variety of attachments to be fitted. The operator controls the loader within an ROPS and FOPS operator compartment.
Intended Use	Huski skid steer loaders are designed to dig, collect, lift and move material using a large variety of attachments.
NOTE	This hazard assessment is limited to the use of the Huski skid steer loader with a bucket attachment only.

Reviewed		Authorisation	
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Position Title	Engineering Coordinator	Position Title	Product Safety, Standards and Engineering Manager

Item	Potential Hazards	Control Methods
1.	Use by Unauthorised or Untrained Personnel	<ul style="list-style-type: none"> • Always switch off and remove the key when unattended to prevent unauthorised use. • Always remove the key from the switch, when leaving the skid steer loader unattended. • Ensure only competent and authorised persons with appropriate training use the skid steer loader. • Ensure the Operation Manual has been read and understood by the operator and must be stored on the skid steer loader. • Ensure all affixed warning labels have been read and understood by the operator.
2.	Operating Environment	<ul style="list-style-type: none"> • Do not use the skid steer loader if visibility is poor. • Maintain minimum approach clearances from power lines/conductors as specified in the operation manual or as per each State/Territory mandates. • Keep a safe distance from drains and other obstacles that cause roll over. • Be aware of low heights created by obstacles. • Always inspect terrain prior to operating to see if it is capable of supporting the weight of the skid steer loader and its load when operating.
3.	Personnel Injury, Colliding with Fixtures and Damage to Product	<ul style="list-style-type: none"> • Employers should ensure that a hazard & risk assessment is conducted for the operator's duties and that a "Safe System of Work" is in place. • Ensure operators have read and understood the operator's manual. • Use hearing protection for prolonged use with an open cabin. • Never allow passengers to ride-on or be lifted by the skid steer loader. • Prior to operation, check personnel and other equipment are not in the vicinity. • Always use the seatbelt when operating to prevent the operator from being ejected. • If fitted with a suspension seat, ensure it is adjusted to suit the weight of the operator. • Ensure any guards or covers are in place and locked prior to operation. • When operator vision is impaired, ask for someone to direct operations and ensure there is no risk to personnel.
4.	Operational Hazards	<ul style="list-style-type: none"> • Make sure safety and maintenance checks have been performed at the beginning of each shift and periodic maintenance is carried out as per the schedule by an authorised person and records kept. Report any defects or faults. • Always refer to the operator's manual before for using the skid steer loader. • When operating ensure functions are used in a smooth manner. • Avoid parking on an incline or slope. If required, chock the wheels.

5.	Instability/Tip Over	<ul style="list-style-type: none"> • Ensure tyre pressures are set to the correct specification. • Do not exceed the maximum Rated Operating Capacity (ROC). Ensure the weight of the attachment is deducted from the ROC. Refere to the machine and attachment name plates. • When manoeuvring on a slope or gradient do not exceed the following: <ul style="list-style-type: none"> ○ When travelling forwards, do not travel on slopes greater than 16.7 degrees (30%) ○ When travelling in reverse, do not travel on slopes of more than 29.7 degrees (57%) • When manoeuvring on a slope or gradient, keep the boom and bucket as low to the ground as possible. • In the event of a tip over, remain seated and lean away from the impact zone. • Do not use the skid steer for lifting unless it has been configured and approved for this task. • Do not use the skid steer loader to tow trailers or other vehicles.
6.	Mechanical or Control Failure	<ul style="list-style-type: none"> • Conduct pre-operational checks as outlined in the operation manual out at the beginning of each shift. • Follow hourly/time-time based service intervals. Rectify any reported issues or faults. • Do not modify the skid steer loader without the approval of Toyota Material Handling Australia Pty Ltd (TMHA).
7.	Pinch Points and Crushing	<ul style="list-style-type: none"> • Prior to operation, ensure locking pins for the bucket or attachment are in place. This must be done by a physical inspection • Ensure clear communication methods are applied when operating in the vicinity of team members and other operators. • Never stand under the boom/bucket when elevated. • Do not enter or exit the cabin whilst the boom/bucket is raised. • Ensure hands are kept clear of moving parts of the boom and blade • Do not open engine or component covers until the skid steer loader is turned off and isolated.
8.	Slips, Trips and Falls when Operating	<ul style="list-style-type: none"> • Keep operator compartment steps and floor clean of debris, mud, oil, grease and other slippery substances. • Ensure 3 points of contact when entering and exiting the skid steer loader. • Wear appropriate safety footwear with non-slip soles. • Ensure skid steer loader is completely stopped with park brake applied and transmission in neutral before entering or exiting the skid steer loader. • Never use the controls as a handhold when entering and exiting the skid steer loader.

9.	Injury from Falling Objects	<ul style="list-style-type: none"> • Ensure no personnel are in the vicinity when operating. • Being struck by materials. • Never stand under the boom when elevated. • Do not lift or dump materials over the operator compartment. • Care needs to be taken when operating in the vicinity of team members and other operators.
10.	Maintenance	<ul style="list-style-type: none"> • Do not open engine or component covers until the skid steer loader is turned off and isolated. • Ensure operator manual is followed when performing maintenance. This includes isolating the skid steer loader e.g. remove key and all pressure has been relieved prior to conducting maintenance on hydraulics, ensure the engine is off and the hydraulics have been depressurised. • Wear appropriate personal protective equipment (PPE) suitable for the task, including eye and hand protection. • When performing under-chassis maintenance, ensure the skid steer loader is sufficiently propped. • If the skid steer loader becomes bogged ensure the undercarriage and tracks are cleaned prior to further operation. • Do not modify the skid steer loader without the approval of Toyota Material Handling Australia Pty Limited (TMHA).
11.	Injury when Changing Attachments	<ul style="list-style-type: none"> • Do not manoeuvre attachments by hand. Use mechanical lifting devices or the skid steer loader to relocate. • Follow the procedure in the Operator Manual to fit and remove attachments. • Isolate area around skid steer loader with barriers to restrict pedestrian access. • Always relieve pressure from system before connecting or disconnecting hydraulic hoses. Use eye protection for these tasks. • Do not attempt to lock or release the hitch mechanism unless the skid steer loader controls are isolated. • When removing or replacing the bucket always stand clear as there is a possibility the bucket could shift or roll.
12.	Exhaust fumes	<ul style="list-style-type: none"> • Do not operate diesel engines indoors or in confined areas. • When lifting the skid steer loader only use approved lifting points and a spreader bar. Refer to the operator's manual. • Under no circumstances is any one to be in the vicinity when the skid steer loader is being lifted.

Specifications	5SDK5	5SDK8	5SDK9	5SDK10	5SDK11
	Power Source	Yanmar 3TNE88 Diesel	TOYOTA IDZ-II Diesel	TOYOTA 2Z Diesel	TOYOTA 2Z Diesel
Max Gradeability: (FWD/REV)	30%/57%	30%/57%	30%/57%	30%/57%	30%/57%
Machine Weight (inc. std bucket and fuel)*	1865kg	2660kg	2660kg	2885kg	2950kg
Operating Load (SAE)	430kg	1300kg	1500kg	1790kg	1850kg
Tipping Load (SAE)	860kg	650kg	730kg	820kg	900kg
Width with std bucket	1230mm	1530mm	1530mm	1530mm	1530mm
*Weights may vary dependant on the options fitted. Confirm capacities on the machine and attachment name plates.					
Safety Features	<ul style="list-style-type: none"> • Operator Presence System (OPS). Seat is fitted with a switch which prevents travel and hydraulic functions should the operator leave the seat whilst in operation • Assist Grips • Two-point Seatbelt • Multiple Safety Interlock System (Pedal lock and parking brake lock linked with seatbar). • Load Handling Pedal Control • Shock-Reducing Bucket Feature • Back Up Buzzer • Low Vibration and Low Fatigue Control Levers • Toyota's Safety System • ROPS/FOPS (ISO) Guard • Dual element cyclone cleaner • Front and Rear Work Lights • Overhead Instrument Panel • Oil Pressure Warning Lights • Fuel and Temperature Gauges • Arm Lock on boom • Self-Levelling System on Lift • Lifting points (for lifting machine) 				

References

- *ISO 2867:2011: Earth-moving machinery Earth-moving machinery — Access systems.*
- *ISO 3449:2005: Earth-moving machinery - Falling-object protective structures - Laboratory tests and performance requirements.*
- *ISO 3471:2008: Earth-moving machinery - Roll-over protective structures - Laboratory tests and performance requirements.*
- *ISO 6683:2005: Earth-moving machinery - Seat belts and seat belt anchorages - Performance requirements and tests.*
- *SAE J 1388:2003 Surface vehicle standard - Personnel Protection - Skid Steer Loaders.*