



Excavator

Preventative Maintenance Inspection Checklist

Inspectors Name	Date		
Machine Make/Model	Serial Number	Plant Number	SMR

Item		Service Interval			Comment	
		Daily	Weekly	Monthly	Quarterly	
Machine Inspection • Machine Pivot Pa	oints					
o Check for boom foo	wear/movement in t pin					
	wear/movement in pivot pin					
o Check for dog bone	wear/movement in pins					
	wear/movement in h (if fitted)					
o Check for titling hitcl	wear/movement in (if fitted)					
Buckets/Attachn	nents					
	uckets for uneven ting edge wear)					

Inspect bucket pins/ears (width/alignment)			
 Check for wear/movement in tilt bucket pins 			
Hydraulics – for automatic excavator systems	•		
Check hoses dry, free of oil leaks			
Check hydraulic hoses for wear			
 Check hydraulic operation and tune if required 			
Mounting Brackets			
 Check all sensor mounting brackets are secure (especially dog bone if using hammer) 			
 Check sensor guard and bracket on tilt bucket/hitch (if fitted) 			
Check strain relief for cable fixings			
 Check GPS antenna mounting poles (Bent/cracked/loose) 			
Check control box screen mounting bracket (Loose/cracked)			
 Check tightness of ram ball mount? Will it support a control box when tracking around? 			

Cables			
 Inspect sensor cables for wear/tear/rub marks at pivot points 			
 Inspect tilt bucket cables for wear/tear/rub marks at pivot points/clear of debris (if fitted) 			
 Check that all connectors are clean and tight (spray with contact cleaner) 			
 Inspect GPS cables for wear/tear (connector pins not too far out/in) 			
Check that all connectors are clean and tight			
 Check fuse holder is secure and no corrosion 			
 Check earth wire is secure and no corrosion 			
3D Components			
 Inspect GPS antennas/prism for damage/corrosion 			
 Check UHF & Network connectors into rover box & modem (clean & tight) 			
 Inspect control box & screen protector 			
 Check UHF, Network antenna and Mag bases (corrosion, loose fittings, cable frayed) 			

 Inspect rover box mounting rubbers and magnets (loose/missing/torn) 				
 Inspect modem & rover box magnets are secure (if fitted) 				
2D Operation2D Sensor's operation checked (all ser	nsors online	∋)		
 Check IMU sensor operation (Body, Boom, Dipper Arm, Hitch/Dogbone) 				
 Check Tilt sensor operation (Tilting hitch/Tilt Bucket) 				
3D Operation3D operation checked (system initialise	ed)			
 Check if correct machine file has been selected 				
 Check if Base Station correction is configured correctly (UHF/Network) 				
 Check if correct project file & design surface has been selected 				
Machine Accuracy				
2D calibration check (machine image moving/matching real-time machine movement)				
3D position check (Benchmarking/referencing machine to point on jobsite)				

 Check/recalibrate all buckets/attachments 					
Machine capable of final trim operations					
Operator Familiarisation					
 Adjusting customised views for operator preference 					
 Adjusting text display on the screen for operator preference 					
 Adjusting background colour for operator preference 					
 Familiarise operator on customised joystick button configurations (if auto excavator system is fitted) 					
 Discuss/demonstrate existing features the operator is not currently using or unaware of 					
 Familiarising operator on new features of software 					
Software/Firmware Updated (Contact your lo	cal Positio	n Partners	Dealer for	the lates	tupdates)
GPS Firmware					
Radio Firmware					
Controller Board Firmware					

3DMC Version Updated		
 Geoid & Projection files updated (MGA2020 capable) 		
Tokara Agent Version (If applicable)		