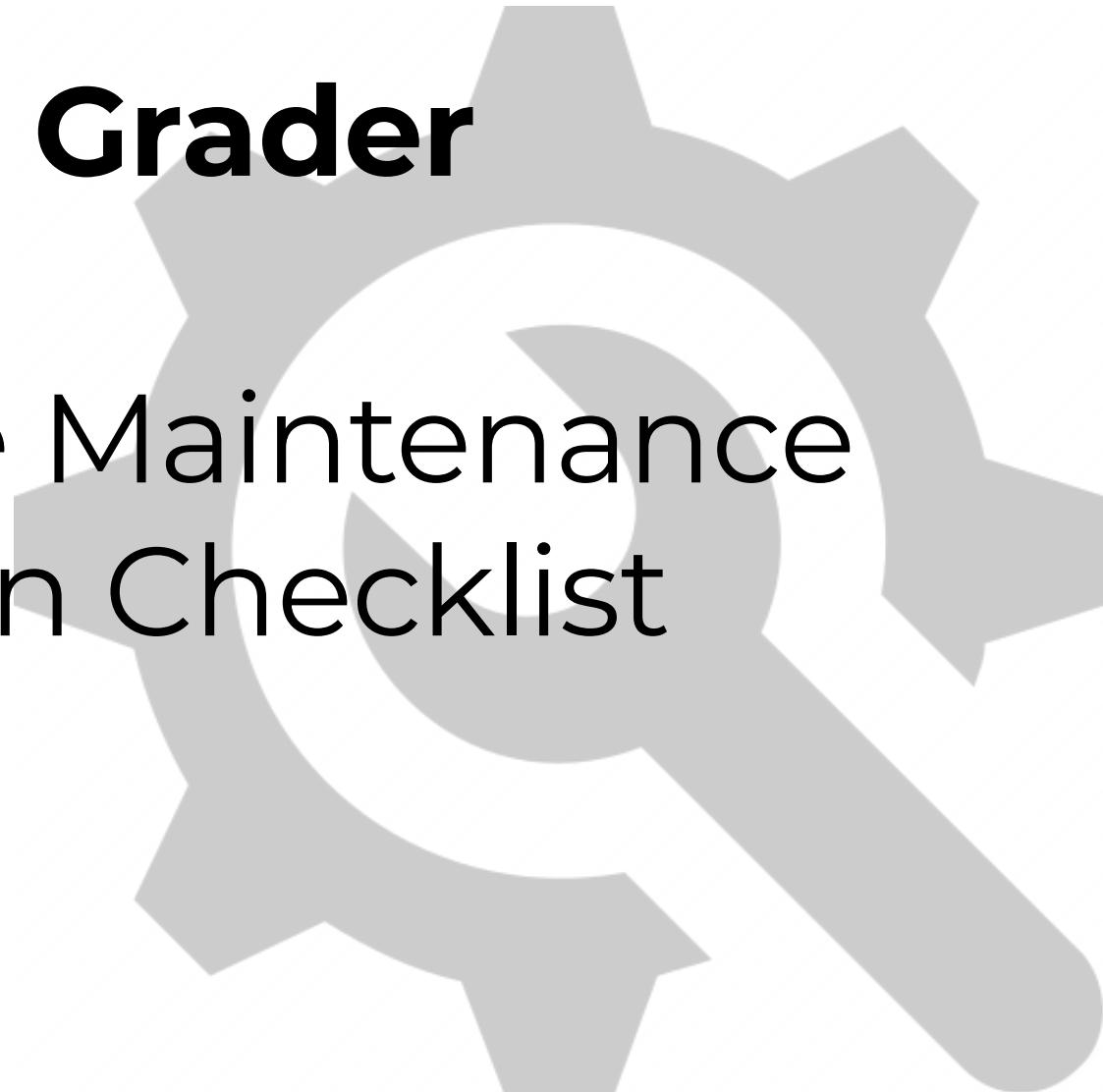




Motor Grader

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						
<ul style="list-style-type: none"> Machine Wear Points 						
○ Check for wear/movement in circle (Rotation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
○ Check for wear/movement in hose tray (hose tray rods bent/damaged)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
○ Check for wear/movement in slides & rails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
○ Check Knuckles, Pins, A-Frame Ball (wear/damaged/loose)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
○ Check blade cutting edge wear (is it wearing uneven in the middle? Need replacing?)	<input type="checkbox"/>	<input type="checkbox"/>				

Hydraulics – for automatic operation

<ul style="list-style-type: none">• Check hydraulic hoses are dry & free of oil leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<ul style="list-style-type: none">• Check hydraulic hoses for wear/tear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<ul style="list-style-type: none">• Inspect valve bank & hoses for oil leaks (if fitted)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<ul style="list-style-type: none">• Check hydraulic response operation and tune if required (adjusting gains to suit)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Mounting Brackets

<ul style="list-style-type: none">• Check L-Bar mounting brackets are secured and in good condition	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none">• Check L-Bar is not bent/damaged	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none">• Check vibe pole is not bent or damaged	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none">• Check vibe pole mounting bushes for excessive wear/movement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<ul style="list-style-type: none">• Check slope sensor mounting bracket for cracks, bent, clean of debris	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none">• Check Control Box bracket is not loose, and handle is secure	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none">• Check twin antenna mounting bracket bushes for wear (if fitted)	<input type="checkbox"/>	<input type="checkbox"/>			

- Check tightness of ram ball mount?
Will it support a control box when tracking around?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Cables

- Check GPS Coil Cable for wear/secured with strain relief (connector pins not too far out/in)
- Check MMGPS Coil Cable for wear/tear/secured with strain relief (if fitted)
- Inspect sensor cables for wear/tear/clean of debris/rub marks at pivot points
- Inspect strain relief anchor points are secured and not damaged
- Check that all connectors are clean and tight
- Check fuse holder is secure and no corrosion
- Check earth wire is secure and no corrosion

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3D Components

- Inspect GPS antennas/prism for damage/corrosion
- Check UHF & Network connectors into rover box & T-link (clean & tight)
- Inspect control box & screen protector

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

• Check UHF, Network antenna and Mag bases (corrosion, loose fittings, cable frayed)			<input type="checkbox"/>	<input type="checkbox"/>	
• Inspect MC-R3 mounting rubbers and magnets (loose/missing/torn)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
• Inspect T-Link & MC-i4 magnets are secure (if fitted)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2D Operation

- 2D Sensor's operation checked (all sensors online)

○ Mainfall Sensor operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
○ Rotation Sensor operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
○ Slope Sensor operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
• MC ² Sensor operation (if fitted)					
○ Inspect MC ² Sensor (clean of debris)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
○ Check MC ² Sensor alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
○ Calibrate MC ² Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
• Check if auto switch is operational (auto lights appear on screen)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3D Operation

- 3D operation checked (system initialised and all sensors online)

<ul style="list-style-type: none"> ○ Check if correct machine file has been selected 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> ○ Check if Base Station correction is configured correctly (UHF/Network) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> ○ Check if correct project file & design surface has been selected 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Machine Accuracy

<ul style="list-style-type: none"> ● 2D calibration check (perform sensor calibration) 	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none"> ● 3D position check (Benchmarking/referencing machine to point on jobsite) 	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none"> ● Check/remeasure vibe pole position on blade in machine file (Above, Inside, Behind, Width) 	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none"> ● Machine capable of final trim operations 	<input type="checkbox"/>	<input type="checkbox"/>			

Operator Familiarisation

<ul style="list-style-type: none"> ● Adjusting customised views for operator preference 			<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> ● Adjusting text display on the screen for operator preference 			<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> ● Adjusting background colour for operator preference 			<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> ● Familiarise operator on elevation increment buttons on the joysticks (adjusting set points on screen) 			<input type="checkbox"/>	<input type="checkbox"/>	

<ul style="list-style-type: none"> Discuss/demonstrate existing features the operator is not currently using or unaware of 			<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Familiarising operator on new features of software 			<input type="checkbox"/>	<input type="checkbox"/>	

Software/Firmware Updated (Contact your local Position Partners Dealer for the latest updates)

<ul style="list-style-type: none"> GPS Firmware 			<input type="checkbox"/>		
<ul style="list-style-type: none"> Radio Firmware 			<input type="checkbox"/>		
<ul style="list-style-type: none"> Controller Board Firmware 			<input type="checkbox"/>		
<ul style="list-style-type: none"> 3DMC Version Updated 			<input type="checkbox"/>		
<ul style="list-style-type: none"> Geoid & Projection files updated (MGA2020 capable) 			<input type="checkbox"/>		
<ul style="list-style-type: none"> Tokara Agent Version (If applicable) 			<input type="checkbox"/>		