



Bulldozer, Scraper & Compactor

Preventative Maintenance
Inspection Checklist

Inspectors Name	Date
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Machine Make/Model	Serial Number	Plant Number	SMR
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Item	Service Interval				Comment
	Daily	Weekly	Monthly	Quarterly	
Machine Inspection					
<ul style="list-style-type: none"> Machine Wear Points 					
<ul style="list-style-type: none"> Check wear/tension in tracks 			<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Check for wear/excessive movement in hydraulic ram pins (elevation & slope) 			<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> Check 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 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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Mounting Brackets					
<ul style="list-style-type: none"> • Check T-Bar/vibe pole mounting brackets are secured and in good condition 	<input type="checkbox"/>	<input type="checkbox"/>			
<ul style="list-style-type: none"> • Check T-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"/>			
<ul style="list-style-type: none"> • Check tightness of ram ball mount? Will it support a control box when tracking around? 	<input type="checkbox"/>	<input type="checkbox"/>			

Cables					
<ul style="list-style-type: none"> • Check GPS Coil Cable for wear/secured with strain relief (connector pins not too far out/in) 	<input type="checkbox"/>	<input type="checkbox"/>			

• Check MMGPS Coil Cable for wear/tear/secured with strain relief (if fitted)	<input type="checkbox"/>	<input type="checkbox"/>			
• Inspect sensor cables for wear/tear/rub marks at pivot points	<input type="checkbox"/>	<input type="checkbox"/>			
• Inspect strain relief anchor points are secured and not damaged	<input type="checkbox"/>	<input type="checkbox"/>			
• Check that all connectors are clean and tight	<input type="checkbox"/>	<input type="checkbox"/>			
• Check fuse holder is secure and no corrosion			<input type="checkbox"/>	<input type="checkbox"/>	
• Check earth wire is secure and no corrosion			<input type="checkbox"/>	<input type="checkbox"/>	

3D Components					
• Inspect GPS antennas/prism for damage/corrosion	<input type="checkbox"/>	<input type="checkbox"/>			
• Check UHF & Network connectors into rover box & T-link (clean & tight)	<input type="checkbox"/>	<input type="checkbox"/>			
• Inspect control box & screen protector		<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)

○ Slope Sensor operation (if fitted)

- MC² Sensor operation (if fitted)

○ Inspect MC² Sensor (clean of debris)

○ Check MC² Sensor alignment

○ Calibrate MC² Sensor

- Check if auto switch is operational (auto lights appear on screen)

3D Operation

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

○ 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 (perform sensor calibration)	<input type="checkbox"/>	<input type="checkbox"/>			
• 3D position check (Benchmarking/referencing machine to point on jobsite)	<input type="checkbox"/>	<input type="checkbox"/>			
• Check/remeasure vibrate pole position in machine file (Above, Inside, Behind, Width)	<input type="checkbox"/>	<input type="checkbox"/>			
• Machine capable of final trim operations	<input type="checkbox"/>	<input type="checkbox"/>			

Operator Familiarisation

• Adjusting customised views for operator preference			<input type="checkbox"/>	<input type="checkbox"/>	
• Adjusting text display on the screen for operator preference			<input type="checkbox"/>	<input type="checkbox"/>	
• Adjusting background colour for operator preference			<input type="checkbox"/>	<input type="checkbox"/>	
• Familiarise operator on elevation increment buttons on the joysticks (adjusting set points on screen)			<input type="checkbox"/>	<input type="checkbox"/>	
• Discuss/demonstrate existing features the operator is not currently using or unaware of			<input type="checkbox"/>	<input type="checkbox"/>	
• 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)

• GPS Firmware				<input type="checkbox"/>	
• Radio Firmware				<input type="checkbox"/>	
• Controller Board Firmware				<input type="checkbox"/>	
• 3DMC Version Updated				<input type="checkbox"/>	
• Geoid & Projection files updated (MGA2020 capable)				<input type="checkbox"/>	
• Tokara Agent Version (If applicable)				<input type="checkbox"/>	