



# **Bulldozer, Scraper & Compactor**

## Preventative Maintenance Inspection Checklist

|                           |                      |                     |            |
|---------------------------|----------------------|---------------------|------------|
| <b>Inspectors Name</b>    | <b>Date</b>          |                     |            |
| <b>Machine Make/Model</b> | <b>Serial Number</b> | <b>Plant Number</b> | <b>SMR</b> |

| Item                                                                                          | Service Interval         |                          |                          |                          | Comment |
|-----------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------|
|                                                                                               | Daily                    | Weekly                   | Monthly                  | Quarterly                |         |
| <b>Machine Inspection</b> <ul style="list-style-type: none"><li>Machine Wear Points</li></ul> |                          |                          |                          |                          |         |
| o Check wear/tension in tracks                                                                |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> |         |
| o Check for wear/excessive movement in hydraulic ram pins (elevation & slope)                 |                          |                          | <input type="checkbox"/> | <input type="checkbox"/> |         |
| o Check cutting edge wear (is it wearing uneven in the middle? Need replacing?)               | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |         |

|                                                     |                          |                          |                          |  |  |
|-----------------------------------------------------|--------------------------|--------------------------|--------------------------|--|--|
| <b>Hydraulics – for automatic operation</b>         |                          |                          |                          |  |  |
| • Check hydraulic hoses are dry & free of oil leaks | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| • Check hydraulic hoses for wear/tear               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |

|                                                           |                          |                          |                          |  |  |
|-----------------------------------------------------------|--------------------------|--------------------------|--------------------------|--|--|
| • Inspect valve bank & hoses for oil leaks (if fitted)    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| • Check hydraulic response operation and tune if required | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |

| Mounting Brackets                                                                        |                          |                          |                          |  |  |
|------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--|--|
| • Check T-Bar/vibe pole mounting brackets are secured and in good condition              | <input type="checkbox"/> | <input type="checkbox"/> |                          |  |  |
| • Check T-Bar is not bent/damaged                                                        | <input type="checkbox"/> | <input type="checkbox"/> |                          |  |  |
| • Check vibe pole is not bent or damaged                                                 | <input type="checkbox"/> | <input type="checkbox"/> |                          |  |  |
| • Check vibe pole mounting bushes for excessive wear/movement                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |  |
| • Check slope sensor mounting bracket for cracks, bent, clean of debris                  | <input type="checkbox"/> | <input type="checkbox"/> |                          |  |  |
| • Check Control Box bracket is not loose, and handle is secure                           | <input type="checkbox"/> | <input type="checkbox"/> |                          |  |  |
| • 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"/> |                          |  |  |

## Cables

|                                                                                                |                          |                          |                          |                          |  |
|------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| • 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)                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| • MC <sup>2</sup> Sensor operation (if fitted)                       |                          |                          |                          |                          |  |
| ○ Inspect MC <sup>2</sup> Sensor (clean of debris)                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| ○ Check MC <sup>2</sup> Sensor alignment                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| ○ Calibrate MC <sup>2</sup> 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)

|                                                                          |                          |                          |                          |                          |  |
|--------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| ○ Check if correct machine file has been selected                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| ○ Check if Base Station correction is configured correctly (UHF/Network) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
| ○ Check if correct project file & design surface has been selected       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |

### 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 vibe 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"/> |  |

|                                                                                                                                                         |  |  |                          |                          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------|--------------------------|--|
| <ul style="list-style-type: none"> <li>Adjusting background colour for operator preference</li> </ul>                                                   |  |  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Familiarise operator on elevation increment buttons on the joysticks (adjusting set points on screen)</li> </ul> |  |  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Discuss/demonstrate existing features the operator is not currently using or unaware of</li> </ul>               |  |  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Familiarising operator on new features of software</li> </ul>                                                    |  |  | <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"> <li>GPS Firmware</li> </ul>                                           |  |  |  | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Radio Firmware</li> </ul>                                         |  |  |  | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Controller Board Firmware</li> </ul>                              |  |  |  | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>3DMC Version Updated</li> </ul>                                   |  |  |  | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Geoid &amp; Projection files updated (MGA2020 capable)</li> </ul> |  |  |  | <input type="checkbox"/> |  |
| <ul style="list-style-type: none"> <li>Tokara Agent Version (If applicable)</li> </ul>                   |  |  |  | <input type="checkbox"/> |  |