# A. P. Webb Plant Hire Itd.

**ENGINEERING CONFORMANCE CERTIFICATE** 

ON-TRACK PLANT

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**Operators Quick Guide Booklet** 

A.P. Webb Plant Hire ltd.



**Ballast Brush** 

Version 1

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The contents of this booklet can change without warning and are as a guide only

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# The Operator has overall responsibility to ensure that the correct procedures are applied!!!

Ballast brushes are designed for the removal of ballast from the sleeper fastenings to aid in the process of tamping. It also serves a secondary role of leaving a clean and tidy profile of sleeper and rail whilst helping to build a ballast shoulder.



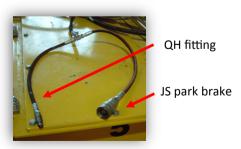
Dipper mounted



Tow bar connected

Whichever type of brush you use, it is not designed to move large deposits of ballast and so a profile blade/bucket MUST be used prior to brushing if damage to the brush will occur due to forcing the brush to move excessive ballast!!

The brakes are released using hydraulic feed for the quick release. This connection must be made with the engine switched off as it is a permanent feed whilst the engine is running. The other option is the hydraulic park brake fitted to the JS which can be used as an alternative.

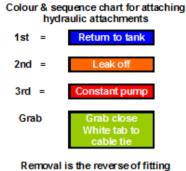


Only brushes fitted with a removable tow bar have independent brakes and therefore require a brake test. Newer brushes only have 1 axle and are therefore exempt from brake test requirements.

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The rotation of bristles is achieved via two methods, dependant on the brush type ..... constant pump or crowd circuit. The easiest method of establishing which is which is to look for a RED hose which denotes a constant pump feed. If the brush doesn't have a red hose then the bristles are fed from the crowd circuit along with the conveyor belt.



Removal is the reverse of fitting Inspect, report and attempt repair of any damage to any fittings or pipes, even on This chart shows the correct connection and disconnection sequence for hydraulic hoses. The crowd operated bristles may still have a BLUE return to tank and/or ORANGE leak off which must always be fitted first and removed last. This will prevent possible damage to components due to tracked hydraulic pressure having nowhere to go.

If using a brush in areas of 3rd rail, **DO NOT OFFSET THE WHEELS!** Instead, remove the bristles on the end of the shaft that sits over the 3rd rail. This can be done using a 10mm socket if it hasn't been done already.

The ballast brush performs differently dependant on ballast type i.e. old ballast with no dust will move easier than new ballast with dust acting as a binding agent. Travel speed should be set accordingly so as not to choke the bristle shaft and stall the belt as the ballast will need to be cleaned out before restarting. Max non-working travel speed is 10mph.

### The host machine should never be on/off tracked with the ballast brush attached!!

The MC competence covering the use of the brush is Group 4 — Ballast Management and will need Crane Controller supervision if lifted using chains.