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Appendix D – Mechanical Brake Overhaul Attention

Safety Condition: SC1 - Applies throughout this appendix

Notes:

1. For vehicles fitted with NACO Swing Motion Bogies the power brake equipment is bogie mounted whilst handbrake equipment is underframe mounted. Section 7 details the requirements for bogie mounted brake equipment, and Section 8 details the requirements for the remaining air brake equipment.
2. Mechanical Brake Overhaul attention **MUST** be authorised by the Technical Standards Engineer, and is to be undertaken at the same time as the VIBT in the year following the vehicle reaching 800 000 miles since last major attention, i.e. Construction or last Mechanical Brake Overhaul.
3. Material for Brake Overhaul attention is managed in accordance with EWS/EP/0164, 'Management and Control of Level 5 Material'.
4. Additionally at Mechanical Brake Overhaul, the bogie mounted air brake cylinder and slack adjuster (TMX system) is to be removed, overhauled and refitted.

D2000 – Overhaul

As this document was being finalised for printing, details were awaited from the OEM to allow the creation of a detailed overhaul instruction. Details will be supplied by the Technical Standards Engineer as a Technical Bulletin to this document once available.

D2001 – Top Centre Casting and Centre Pivot Exam

1. **SAFELY** lift and **SUPPORT** the vehicle, and examine top centre casting and centre pivot for damage, defects, fractures and security of fixing.

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Appendix C – Air Brake Overhaul, continued

C1003 – Handbrake Chain & Support Spring

1. Remove chain and fit new item.

C1004 – Pipework

1. When all air brake equipment is removed, **SAFELY** blow through the pipework with compressed air to remove loose scale and debris, then place temporary covers over exposed pipe ends until components are refitted.

C1005 – Westinghouse Distributor/Distributor Pipe Bracket, continued

1. Remove distributor and fit overhauled or new unit

C1006 – Auxiliary Reservoir, Reservoir Support Strap, Rubber Packing and Cradle

1. Remove and fit overhauled or new units.

Note: HTA's are fitted with 2 auxiliary reservoirs; 1 for brake operation and 1 for door operation. At ABO both auxiliary reservoirs must be changed.

C1007 – Underframe Mounted Variable Load Valves

1. Remove and fit overhauled or new units.

C1008 – Bogie Mounted Variable Load Control Valves

1. Remove and fit overhauled or new units.

C1009 - Variable Load Valve, Variable Load Control Valve Connecting Hoses

1. Remove and fit new hoses irrespective of condition of existing.

C1010 – Bogie Mounted Brake Cylinder Unit

1. Remove brake cylinders and fit overhauled or new units.

C1011 – Strainer Check Valve & Choke Unit, Hose Protection Chokes

1. Clean out/renew protection chokes (SAB Part No. 41043, Cat No. 19/1363).