

Justification:- Instruction
(Maintenance)

**Private Owner
Circular Letter
481 - Issue 2**

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Title


Primary
Suspension
Damping on
FBT6, VNH1 and
'Y'-Series Bogies

ENDORSEMENT & AUTHORISATION

Endorsed by:


.....
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Authorised by:


.....
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1. **INTRODUCTION**

POCL 481, Issue 2 has been updated to ensure that primary suspension spring cap clearance is maintained following every planned maintenance event. Failures aside, the instruction should ensure that correct damping will be achieved between planned maintenance events.

Note that information not directly relevant to achieving correct primary suspension cap clearance has been removed.

2. **SCOPE**

This POCL applies to all PWRA registered vehicles equipped with “Y” series derivative bogies that operate on Network Rail controlled infrastructure (i.e. FBT6, VNH1, Y25, Y27, Y33, etc).

3. **INSTRUCTION**

3.1 **Spring cap to bogie frame clearance**

The minimum clearance between the spring cap and bogie frame/spring guide is 3mm (see Fig. 1 for fabricated bogie frames and Fig. 2 for cast bogie frames). Wear of the damper components reduces the clearance and if wear is excessive the two surfaces will eventually contact. In this condition the friction dampers are ineffective.

In order to prevent the loss of primary suspension damping, the spring cap to bogie frame clearance shall be checked using feeler gauges or similar, at all PPM and VIBT maintenance events. The minimum clearance shall be 3mm at the positions shown in Figures 1 & 2.

3.2 **Tolerance of individual components**

It shall be ensured that the individual components of the primary suspension are maintained within their designed tolerances for wear. These tolerances shall be prescribed in the Owner's relevant maintenance documentation.

4. **Implementation**

This document shall be implemented immediately with its content being effective at the next planned maintenance event for each applicable wagon.

In the event of any query arising, or clarification required, please contact:

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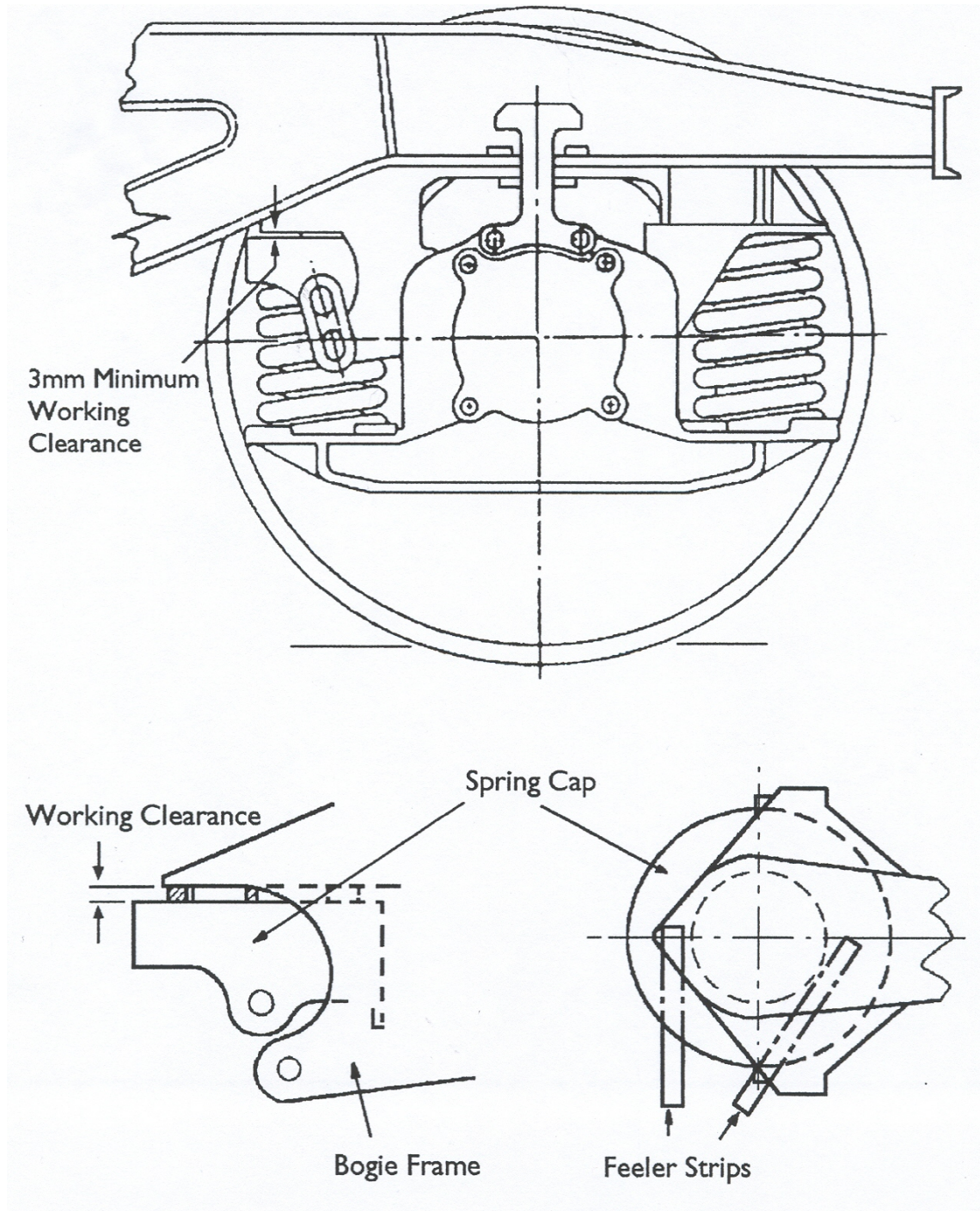


Fig. 1 FABRICATED BOGIE FRAME – MINIMUM CLEARANCE

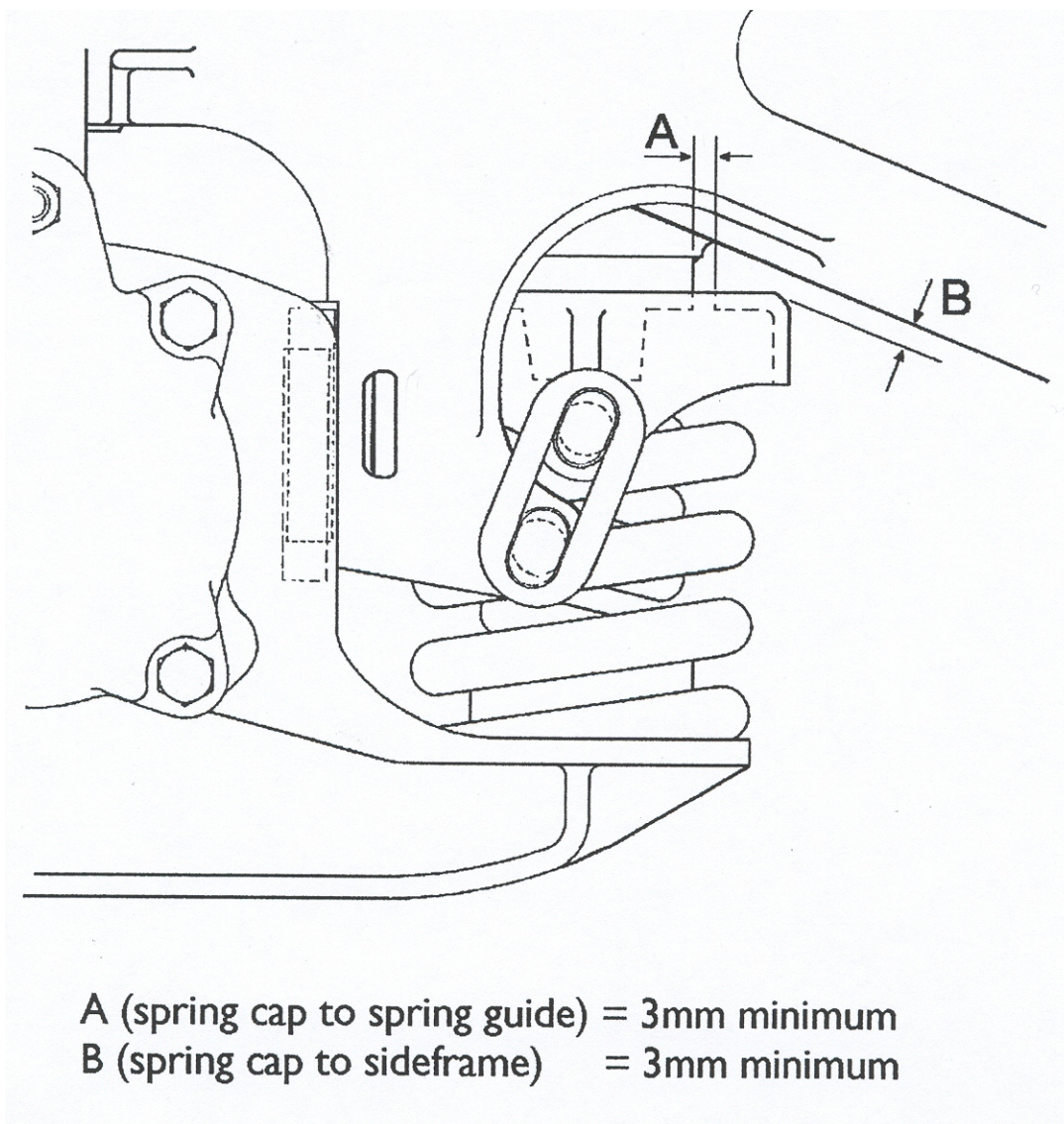


Fig. 2 CAST BOGIE FRAME – MINIMUM CLEARANCE