Air Suspension Coach

Air suspension in Coaches







Levelling Valve

Horizontal Lever

Levelling valve allows air to or exhausts air from Air bellows to maintain uniform level

A STALLATO ENDOSTELLE CONTRACTOR DECIDINATION MEDICARY (SECONDARY) MEDICARY (SECONDAR

Installation Lever

FIBA Device



Failure Indication and Brake Application Device

Necessity for FIBA

Supply for air spring is taken from FP

- loss of compressed air from the system not immediately noticed
- Unsafe train operation due to exhaust of compressed air
- Delay in identifying the cause

FIBA is provided in the coach to apply service brake automatically in the event of failure of air spring

Line diagram for FIBA in coach



Indication of failure by FIBA

- Automatic BP dropping through FIBA unit 8 mm choke exhaust & brake application on the train
- FIBA brake indicator on either side of coach for each bogie
- Audio sound from the FIBA device

FIBA Testing COC for individual Air Suspension of Bogie

FIBA Indicator

FIBA Unit

FIBA in Double Decker Coaches



Procedure for attending

- When the train brake application is identified, Loco pilot should make service application.
- Locate the coach with ruptured bellow through FIBA Indicator and hissing sound.
- Close BP COC on branch pipeline connected to FIBA unit

FIBA Unit

Close BP COC for FIBA

Resetting in this type FIBA



Ensure FIBA indicator turns to green.

Resetting in this type FIBA



Ensure FIBA indicator turns to green.

Procedure for attending

- Isolate the Bogie isolating cock of the Air spring which is provided between the MR and the Bogie.
- Ensure both springs air is vented and coach is sitting on the emergency springs without any tilt.
- Continue the journey with speed limit of 60 Kmph.
- Inform PRC / Section Control

Close Air Suspension Isolating COC of concerned Bogie



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