

**Aviation Safety Investigation Report  
199002211**

**Boeing B737-300  
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**7 May 1990**

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5 miles north (of VH-CZN's position). A breakdown in the separation standards occurred. The radar recording indicated VH-CZN had passed behind and above VH-TAV. The minimum distance/height between the aircraft was two miles and 600 feet. An experienced controller was seated beside the sector Three Controller during the incident but he did not have his headset plugged into the circuit. He suggested vertical separation be re-applied by restricting VH-CZN to FL330. This advice was misconstrued by the Sector 3 Controller as a heading change onto 330.

**Significant Factors:**

The following factors were considered relevant to the development of the incident

1. The Controller made an error of judgement in the assessment of an initial heading for VH-CZN to be positioned behind VH-TAV.
2. Attempts to radar vector VH-CZN to maintain lateral separation after the initial heading change were ineffective due to further poor judgement.
3. The controller did not apply procedures in a timely manner, to maintain vertical separation between the two aircraft, until after the initial vertical separation was lost.
4. The controller did not warn the crew of VH-CZN of the loss of separation standards.
5. The poor judgement by the controller indicated inadequate training and checking of the controller in radar vectoring techniques.
6. The controller was inexperienced.
7. An experienced controller seated at the Sector Three console, was unable to offer timely advice as he was not plugged into the intercomm/radio circuit.

**Recommendations:**

The circumstances of this occurrence have been referred to the Civil Aviation Authority (Air Traffic Services) with recommendations concerning the training and checking of trainee and newly rated ATS officers. -