

**16.5 BRAKE PERFORMANCE - Brake Distribution Test - Mitsubishi Pajero/Shogun SWB Vehicles.
Issued 23/05/01.**

Procedure and Standards 5.1 item c / 5.2 item b,v, Longitudinal Brake Distribution.

It has been found that some short wheel-base vehicles of this make/model have a potentially dangerous braking system characteristic that could go undetected under normal test procedures.

Vehicles have been found to meet the brake distribution requirement as a result of a roller brake test/calculation and vehicles of the same type found to fail when given an observed dynamic distribution test on the test track, both the rear wheels locking well before the fronts. Back to back tests have confirmed that some vehicles tested on the RBT display a “pass” but fail in a practical situation.

From receipt of this instruction **all Mitsubishi Pajero/Shogun SWB vehicles must be tested by conducting a deceleration test (observed by an assistant)** to ensure that both the rear wheels **do not** lock before the fronts. This must be done in addition to the normal efficiency/distribution tests carried out.

On an associated issue, we have been informed of an applicant who, having a vehicle that failed the distribution test, re-presented the vehicle after contaminating the rear brakes with oil. Although this reduced the effectiveness of the rear brakes to an acceptable level, it clearly prevents the examiner from conducting an examination of the design and construction characteristics of the vehicle.

Please beware, and if you are presented with this situation issue an SVA 12 on “vehicle dirty or dangerous as to make it unreasonable for the examination to be carried out” adding “ (brake contamination)”.