

vehicle, the towing vehicle will be capable of being stopped by the use of its service brakes.

(f) *Trailer air reservoirs safeguarded.* Air brake systems installed on trailers manufactured or assembled after June 1, 1970, shall be so designed that the supply reservoir used to provide air for the brakes shall be safeguarded against backflow of air from the reservoir through the supply line.

(g) *Two means of emergency brake operation.*

(1) *Air brakes.* After June 1, 1971, every towing vehicle, when used to tow another vehicle equipped with air controlled brakes, in other than driveway or towaway operations, shall be equipped with two means for emergency application of the trailer brakes. One of these means shall apply the brakes automatically in the event of a reduction of the towing vehicle air supply to a fixed pressure which shall be not lower than 20 pounds per square inch nor higher than 45 pounds per square inch. The other means shall be a manually controlled device for applying and releasing the brakes, readily operable by a person seated in the driving seat, and its emergency position or method of operation shall be clearly indicated. In no instance may the manual arrangement be arranged to permit its use to prevent operation of the automatic means. The automatic and the manual means required by this section may be, but are not required to be, separate.

(2) *Vacuum brakes.* After June 1, 1970, every towing vehicle used to tow other vehicles equipped with vacuum brakes, in operations other than driveway or towaway operations, shall have, in addition to the single control device required by subsection (h), a second control device which can be used to operate the brakes on towed vehicles in emergencies. The second control shall be independent of brake air, hydraulic, and other pressure, and independent of other controls, unless the braking system be so arranged that failure of the pressure upon which the second control depends will cause the towed vehicle brakes to be applied automatically. The second control is not required to provide modulated braking.

(h) *Single control to operate all brakes.* After June 1, 1971, every motor vehicle, trailer, semitrailer, and pole trailer, and every combination of such vehicles, except motorcycles, equipped with brakes shall have the braking system so arranged that one control device can be used to operate all service brakes. This requirement does not prohibit vehicles from being equipped with an additional control device to be used to operate brakes on the towed vehicles. This regulation does not apply to driveway or towaway operations unless the brakes on the individual vehicles are designed to be operated by a single control on the towing vehicle, **NOR DOES IT APPLY TO THE OPERATION OF ELECTRIC TRAILER BRAKES.**

(i) *Reservoir capacity and check valve.*

(1) *Air brakes.* Every bus, truck, or truck tractor with air operated brakes shall be equipped with at least one reservoir sufficient to insure that, when fully charged to the maximum pressure as regulated by the air compressor governor cut-out setting, a full service brake application may be made without lowering the reservoir pressure by more than 20 per cent. Each reservoir shall be provided with means for readily draining accumulated oil or water.