

vehicle weight rating of at least .015, with the engine stopped.

S4.1.3.3 If the transmission shift lever is in Park, automatically stopping or restarting the engine shall not take the transmission out of Park.

**S4.1.4 Identification of shift lever positions.**

S4.1.4.1 Except as specified in S4.1.4.3, if the transmission shift lever sequence includes a park position, identification of shift lever positions, including the positions in relation to each other and the position selected, shall be displayed in view of the driver whenever any of the following conditions exist:

(a) the ignition is in a position where the transmission can be shifted; or

(b) the transmission is not in park.

S4.1.4.2 Except as specified in S4.1.4.3, if the transmission shift lever sequence does not include a park position, identification of shift lever positions, including the positions in relation to each other and the position selected, shall be displayed in view of the driver whenever the ignition is in a position in which the engine is capable of operation.

S4.1.4.3 Such information need not be displayed when the ignition is in a position that is used only to start the vehicle.

S4.1.4.4 All of the information required to be displayed by S4.1.4.1 or S4.1.4.2 shall be displayed in view of the driver in a single location. At the option of the manufacturer, redundant displays providing some or all of the information may be provided.

**S4.2 Manual transmissions.** Identification of the shift lever pattern of manual transmissions, except three

forward speed manual transmissions having the standard "H" pattern, shall be displayed in view of the driver at all times when a driver is present in the driver's seating position.

**S5. Test Conditions and Procedures.** A vehicle with an automatic transmission that operates according to S4.1.3.2 shall be tested under the following conditions and procedures.

**S5.1 Test for Creep Force.**

S5.1.1 The ambient temperature of the test environment must be between 0 and 40 degrees Celsius (32 to 104 degrees Fahrenheit).

S5.1.2 All parameters and adjustments of the vehicle are set to factory specifications as delivered to the customer. This includes such parameters as brake adjustments, engine adjustments, and wheel bearing lubrication. Initial tire inflation pressures shall be in accordance with 49 CFR section 571.110, S4.3(c) for maximum loaded vehicle weight. The initial battery charge shall be in accordance with manufacturer's specifications, or if the manufacturer has no specifications, at a state of charge of not less than 95 percent.

S5.1.3 All accessory systems, except those that prevent creep force from being measured with the engine stopped, shall be turned on to their maximum setting.

S5.1.4 Load the vehicle under test to its gross vehicle weight rating in such a way as not to exceed any axle's gross axle weight rating when measured at the tire-ground interface and place it on a level paved surface.

S5.1.5 Attach one end of a tether such as a chain or cable to the front of the vehicle chassis at a point on the

vehicle's longitudinal centerline and attach the other end to a structure that will remain stationary during the test. In series with the tether and between the vehicle and the stationary structure, place a force measurement device such as a load cell that will measure tension force at a minimum frequency of 10 HZ and to an accuracy within  $\pm 2$  percent of the actual reading in the range of 0 to 4450 N (0 to 1000 lb).

S5.1.5.1 The tether and the force measurement device must be in a horizontal orientation, parallel to the longitudinal axis of the vehicle during measurements.

S5.1.6 With the transmission shift lever in the Neutral or Park position and the parking brake applied, place the ignition switch to the Start position then release it to the Run position. Allow the vehicle to remain in this state for 15 minutes (whether the engine is running or not) before the measurements are recorded. Depress and hold the vehicle's service brake pedal to prevent vehicle motion, release the parking brake and place the transmission shift lever in the Reverse position.

S5.1.7 With the internal combustion engine stopped, slowly release the vehicle service brake pedal until the measurement device begins to register a force.

S5.1.8 Fully release the vehicle service brake pedal. Record the force indicated by the force measurement device.

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