

December 8, 1964

Model B-11, B-12

ENGINEERING MEMORANDUM #83

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FROM: R. G. Fuller

SUBJECT: WHEELS AND TIRES

Engineering has released a new wheel 701360 which will be used to replace #95407 Wheel Assembly. Use in complete sets is important to avoid complaints of "brake dive" because the new wheel has a different dish than the old by 3/16". Identification of the new is easy because we specified safety rim, or hump type rim. There are a few wheels on hand and in Service which have this 3/16" change in dish and do not have safety rims.

The new wheel is released to provide clearances for a new tire size, namely 8.15 x 15 which replaces our old 7.10 x 15 tire. The rolling radius of 8.15 x 15 tires is approximately one tenth inch smaller than the rolling radius of the tire it replaces and the change in speedometer readings is about(.8%) eight tenths of one percent faster. Another tire size; 7.75 x 15 is now being made to replace our familiar 6.70 x 15 and the relative change in speedometer readings can be expected.

The cabs that are equipped with regular tires will be affected by this change in tire size but the mileage tires will remain unchanged. Production and Service, however, will please note; the safety rim is back and tire mounting problems with it. For the sake of safety to the passengers we can suffer a little with mounting and demounting tires, especially since all of our vehicles are moving faster now than ever before.

On the basis that the "personal car" will be affected most by the rolling radius and the change is so small as to make a change difficult we will continue with our current speedometer gears. In addition most cabs that use meters use mileage tires and the old figure would apply anyway.

Releases for the new tire sizes will be made in due time, but for the present, replacements may follow the pattern outlined above. Customers with old wheels may find it expedient to buy a new set of wheels for the safety rim feature but aside from that when replacing 7.10 x 15 tires in the field either use 7.75 x 15 size in pairs or the same size. If the Checker equipped with 6.70 x 15 tires either 7.10 x 15 or 7.75 x 15 should be used to replace, unless new wheels are applied which will make clearance available for the largest tire practical to use; 8.15 x 15.