

Tractor	Rear Tire Size	Added Liquid	Added Cast Iron	Total Added Weight	Type of Wheel
A	8-24	116	200	316	Pressed Steel Disc.
B	9-36	222	560	782	Cast Spoke
C	10-28	226	528	754	Pressed Steel Disc.
D	9-24	148	450	598	Cast Disc
E	10-28	- -	670	670	Pressed Steel Disc.
F	11-38	242	435	677	Cast Disc
G	11-38	417	560	977	Pressed Steel Disc.
H	12-38	544	701	1245	Pressed Steel Disc.
I	14-26	696	775	1471	Cast Disc
J	13-38	710	891	1601	Cast Disc

The method of adding liquid weight in tires to obtain 90% fill is accomplished by using a special valve adapter having a vent tube which is inserted into the tire through the valve opening. When adding liquid weight, it is recommended that 5 pounds of calcium chloride be added to the gallon of water. Calcium chloride is an effective anti-freeze and also increases the weight of the solution. Water weighs 8.3 pounds per gallon, but when 5 pounds of calcium chloride per gallon are added, the resulting solution weighs 10.75 pounds per gallon. Thus, when adding this amount of calcium chloride to a gallon of water, you increase the weight of the solution approximately 30%.

When testing the pressure of a tire containing calcium chloride, it is necessary to use a Schrader Air-Water Gauge, no. 9350. This gauge is especially designed so that the calcium chloride solution may be cleaned from the gauge after use.

When a regular air gauge is used, it is possible that it will be ruined by the calcium chloride upon testing only one tire. It is also important when checking the pressure of tires containing liquid weight that the valve be placed at the bottom of the wheel, as the added liquid increases the pressure at that point. A variance of as much as two pounds can be obtained by checking the pressure when the valve is at the bottom of the tire, as compared to the pressure when the valve is at the top of the tire. Also, the full weight of the tractor should be on the tire at the time of testing. Tire manufacturers recommend that users add sufficient weight so that they may obtain the maximum performance that is built into the tractor.

SELECTION OF ALTERNATE TIRES.

On many occasions, tractors are purchased to operate in industrial plants, on highways, or golf courses. Standard rear tire equipment is the 10-28 agricultural type tire. When the tractor is to be used for other than agricultural purposes, the All Non-Skid Tire is more desirable. The All Non-Skid Tire or button type tire is available from your tire supply point. As this type tire is not used as original

equipment, it is necessary for the dealers to make the changeover in their service department.

There is another tire changeover which is becoming very popular when front end loading equipment is used. The 4-19 front tire and disc wheel are removed and a 16" disc wheel placed on the tractor. On the 16" wheel you may mount a 5.50 or 6.00-16 size. These sizes are available in 4, 6, and 8-ply construction. When the 8-ply rating tire is needed, because of its higher load carrying capacity, it is necessary to use a 16" wheel equipped with a 4.25 heavy-duty rim. Due to the head construction of the 8-ply tire, a heavy-duty rim is necessary. The following chart illustrates the comparative carrying capacity of the 5.50 and 6.00-16 tires as compared with the 4-19 tire which is original equipment. This chart also shows the recommended air pressure for the various front tires.

Size	Ply	Inflation Pressure Lbs.	Max. Load
4-19	4	28	575
5.50-16	4	28	780
5.50-16	6	36	900
5.50-16	8	64	1265
6.00-16	4	28	915
6.00-16	6	36	1065
6.00-16	8	60	1430

The Firestone Tire & Rubber Company

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CONTROL OF ANTS IN TURF AND SOIL

A new insecticide, Chlordane, has shown considerable promise in experiments conducted for the control of ants in turf and soil. It is a chlorinated hydrocarbon, having the empirical formula C₁₀H₆Cl₈, that is highly toxic to a wide range of insects, including several common agricultural pests. It kills in three ways, by fumigation, by direct contact and by ingestion. Toxicity to man and other warm-blooded animals is similar to that of DDT 3, 4, rather mild, when compared on an equal weight basis. The insecticide was sprayed on pasture forage at the rate of four pounds actual Chlordane per acre and mature sheep were immediately allowed to graze until all available forage was eaten. No ill effect on the animals was noted.

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