

## Adjust Tractor To Increase Horsepower

During a recent test program to determine the condition of tractors being operated by farmers in the fields, engineers at a large spark

plug company found quite a few tractors on which carburetors were out of adjustment . . . The carburetor on one tractor, in fact, was so far out of adjustment that a 26.5 percent increase in fuel economy was obtained by a simple adjustment of the idle and power needles

In another tractor, horse-

power was increased 20 percent, while fuel economy improved 11.5 percent with simple carburetor adjustments

"Farmers often enrich their fuel mixture on a cold morning for easier starting and faster warm up", explained one of the engineers "Then, after the tractor has warmed up, they forget to return the

needle to its original setting. As a result, the tractor is operated all day with an excessively rich fuel mixture which, of course, wastes quite a few fuel dollars

During the tests, the engineers also found that many of the tractors were being operated with reversed coil polarity, which often results in rough idle and misfiring when the tractor engine is under load

Caused by accidentally reversing the primary leads on the ignition coil, this condition puts an unnecessary burden on the spark plugs by raising the amount of voltage needed to produce a spark. It can be easily detected by holding a wooden pencil between the spark plug terminal and the end of the spark plug cable, and with the engine running observe the direction in which the spark flares or takes on an orange tinge as it jumps between cable and spark plug terminal. If the flare is on the spark plug side of the pencil polarity is okay. If it's on the spark plug cable side, polarity is reversed and the primary leads on the coil should be switched

Other conditions which were frequently encountered during the tests were out-of-adjustment governors, worn out spark plugs and badly clogged air filters

Air filter service, in fact, cut fuel consumption 12.8 percent on one tractor — boosted horsepower 12 percent on another

## Machinery Firm Pres. Speaks With Dealers

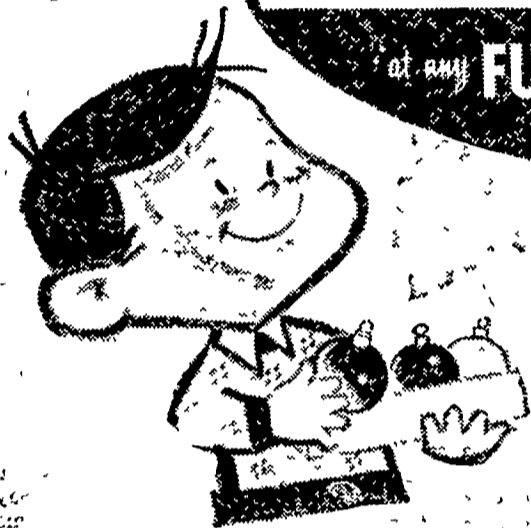
HARRISBURG, PA — Ivan Z Nolt president of Farmersville Equipment Co., Inc. Oliver dealer at Ephrata, Pa., with his manager Clyde Buch, sales manager, Eugene Rutt, salesman, Charles Hackman and partsman, Phares Musser, received a dealer preview of 23 new Oliver farm equipment products for 1963 — one of the largest arrays unveiled at one time by a single manufacturer — at the Farm Show Building here, Monday and Tuesday, Nov 19-20

Dealers from throughout several states attended the Oliver Corporation show, entitled "The Growing O" with Samuel W White, Jr, Oliver's president, keynoting the two-day event and talking personally with dealers along with other headquarters executives.

The display of 1963 equipment featured new developments for every type of farming as well as for all phases of farming operations

"Oliver's continuous research program has gained new impetus in recent years and the products readied for farmers in 1963 are truly outstanding examples of agricultural progress," Oliver President White told dealers at the show "They will help bring new highs to farm mechanization, new cost and time saving to the farmer. Each product will be available from Oliver dealers seasonally."

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