

Spark Plug Voltage Varies With Speed

Why is it a tractor may run fine at low speed and "miss" at high speed? According to engineers from a national spark plug company, when an engine is idling and there is a very small amount of explosive mixture in the combustion chamber, the resistance against the spark jumping across the electrodes is low and probably only 4000 to 6000 volts will be sufficient to make a spark occur.

However, when the throttle is wide open under heavy load compression will be higher due to the fact that there are more molecules of air and fuel mixture between the spark plug electrodes. The resulting increased resistance can actually step up a spark plug's required firing voltage to as much as 20,000 volts.

If any components in the ignition system are not in condition to handle this high-

er voltage requirement, the sparking current may not get to the electrodes with sufficient regularity to permit the engine to fire regularly under severe operating conditions — hence, the "miss" at high speed.

Distributor Cap

Distributor cap inserts are frequently overlooked as a source of high resistance, low coil output and — poor tractor engine performance in general.

It only takes a few minutes to remove each wire from its tower and inspect the inserts. Frequently you'll find the insert badly corroded and eroded — a result of arcing due to the lead not making contact with the metal insert.

If the damage isn't too severe, a wire brush can be used to remove the corrosion and eliminate resistance. However, in many cases, the corrosion will have eaten away the insert and the cap will have to be replaced.

Incidentally, this same condition can exist at the spark plug ends of the cable if they

don't make contact also at the high-tension lead in the ignition coil.

Installing New Cables

When pulling new spark plug cables through a conduit or housing be careful not to scrape off the surface of the wire. You may damage the hard outer coating and allow oil and water to affect the inner insulation.

Ignition Coils

Never steam clean an ignition coil — unless it's hermetically sealed moisture may get inside and do permanent damage.

Don't Use Sandpaper on Rubbing Block

Never use sandpaper on a rubbing block. The rubbing block surface which bears against the distributor cam is burnished when it is manufactured and should never be filed or sanded, as this will destroy the hard, burnished surface and cause excessive wear, the engineers say.

It is not enough to do good — one must do it the right way. — John Morley

Retiring Vet Is Honored By His Community

The community of Intercourse recently tendered a farewell dinner to Dr. and Mrs. Edward P. Clark. Dr. Clark served the eastern Lancaster county area with his veterinary service since 1911, nearly fifty years. He has now retired and they plan to move in with their son-in-law and daughter, Mr. and Mrs. J. Richard Mylin, 1303 West Healy Street, Champaign, Illinois.

The dinner was held in the Plain and Fancy dining room near Intercourse with about 250 persons in attendance.

The evening opened with the invocation and a message by Bishop Aaron F. Stoltzfus, of Paradise, R. D. 1, Elmer D. Zimmerman served as toastmaster.

Martin A. Diller presented a gift from the community, a two-tone wood desk plaque complete with gold horse, cow and dog figures and an appropriate engraved descriptive plate.

Harold A. Hess presented an honorary membership in the Intercourse Horse Thief Association also known as "the Intercourse Association for the

detection of Horse Thieves and Other Thieves."



DR. CLARK

The committee arranging the dinner under the auspices of the Intercourse Civic Association was Elmer D. Zimmerman, Martin A. Diller, Harold A. Hess, Gordon E. Kling and Robert C. Burnley. The Civic Association is headed by Harry C. Diller, president, Harold A. Hess, vice-president, Mrs. William Waldrop, secretary and Robert M. Myers, treasurer.

Other items included a clock for \$10, a dry sink, \$40, copper kettle, \$20, flour chest, \$30, two farm tractors, \$700 and \$1,535; field chopper \$600, tobacco lathe, \$150 per 100, corn, \$36.50 per ton, and cows, up to \$317. A head Elmer Spahr and Omar Landis were the auctioneers.

STRING OF SLEIGH BELLS BRINGS \$215

A single string of sleigh bells sold for \$215 during a public sale of personal property held Monday by Jonas S. Hershey, two miles south of Manheim, along Rt. 72. A sleigh brought \$70.

Anyone can tell you, its a great life if you don't weekend.

Warwick Rambler, Inc.



LANCASTER CITY'S ONLY DIRECT RAMBLER FACTORY OUTLET

SPECIAL!

NEW CAR BUYER'S SALE ON NEW RAMBLERS LISTED BELOW

NEW 1962 RAMBLERS

'62 Rambler 2 Dr. Station Wagon	\$2250.	'62 Rambler Classic 4 Dr. Sedan	\$2250.
'62 Rambler 4 Dr. Station Wagon	\$2275.	'62 Rambler Classic 4 Dr. St Wg.	\$2495.

If your present payments are too high — see us now to trade your present car. We may be able to put you in a Brand New Rambler or in one of our finer late model used cars and we'll arrange financing and payments to suit you. We need good clean cars right away.

Warwick Rambler, Inc.

"THE DEALER WITH A HEART"

720 N. PRINCE ST., LANCASTER, PA.

OPEN HOUSE

Saturday, MARCH 17, 1962

At Our Store on the Lincoln Highway at Gap 9:00 A. M. To 5:00 P. M.

FREE REFRESHMENTS SERVED FROM 10:00 A. M. to 2:00 P. M.

Prizes — Movies

SPECIAL DISCOUNTS WILL BE OFFERED ON CERTAIN I H FARM MACHINERY, FARMALL TRACTORS AND MANY OTHER ITEMS

WE SPECIALIZE IN POWER EQUIPMENT FOR YOUR LAWN AND GARDEN



J. Paul Nolt