GRAVELY BULLETIN



BULLETIN NO.

968

DATE:

June 25, 1962

TO:

ALL OUTLETS

SUBJECT:

Recommended Installation of Ignition Switch

On All Starter Installations

A sporadic and widely scattered problem has appeared within the last few weeks. On tractors on which a starter kit is installed, very rarely the flywheel will be "thrown" out of alignment.

Engineering has been investigating the problem, both with dealers and by making a complete check of all parts and specifications on the starter kits as furnished from the factory. Their conclusion is, that the problem is being caused—in the main—by servicemen and/or customers not depressing the magneto stop button long enough.

If the short button is not depressed until the engine comes to a complete stop, the engine could fire on the up stroke of the piston, since the magneto is set to fire 30 degrees ahead of top dead center. If the engine is slowing down when this happens the firing will cause the engine to run backwards as there will not be enough momentum to overcome the force of the firing which would normally keep the engine running forward.

When this condition is set up in the tractor, the engine running backwards picks up a heavy load from the starter motor through the starter clutch which is sufficient to throw the flywheel out of alignment.

Engineering strongly recommends that in every case in which a starter kit is installed on the customer's tractor that the ignition switch be installed at the same time. This will prevent any possibility of the tractor engine "backfiring" or running backwards and causing misalignment of the flywheel from the sudden torque load picked up from the starter clutch.