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The R. H. wheel spuds save time installing and removing, they are made in many sizes for any type tractor or purpose. Low price and quality has been welcomed by Golf Clubs, in use on 1000 clubs.

Sample spud and circular on request; advise make of tractor and purpose used for.

(If your Ford or equipment dealer cannot supply, write direct).

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as far as is necessary to inspect every working part. All grease and oil will be removed that the bearings and gears may be inspected, refitted and replaced as the condition requires. Bed knives or bottom knives will then be re-dressed or new ones ordered and reels sharpened. Each and every mower will be given a complete overhaul by the mechanic during the winter months, and each mower will then be painted so that the equipment will be in perfect shape for use when the season opens.

Fairway mowers will be scraped, washed, brushed and soaked in kerosene, after which they will receive the same close inspection given hand mowers. Owners of Roseman mowers will be called upon to replace but very few parts, for the reason that they are built of non-breakable material. The reels may need sharpening, and it may be necessary to replace the bed knives, but all working parts should be washed thoroughly with gasoline or kerosene and the oil pockets cleaned out to insure perfect lubrication next season. These mowers should then be rebuilt and re-painted that they will be in as good condition as new ones.

The wheels of all tractors should be removed, the bearings examined, the grease removed and new grease applied. Motors should be drained and washed with a mixture of kerosene and gasoline. The timer, all wiring, the battery and radiator, and in fact, every part of the chassis should be given a thorough inspection, after which worn parts will be replaced. The radiator should be flushed out with a hose, additional grease placed in the rear axle housing, all grease cups refilled twice and screwed down, rear wheels inspected to see that the spokes are tight and the

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wheels keyed tight to the axles. Additional acid should be placed in the battery, and on old style tractors the greenkeeper will find it advisable to install a new timer and the necessary wiring for the timer, which costs but very little. The fan should be thoroughly greased and the fan belt tightened. If the tractors are to stand in a cold barn, all water should be drained from the radiator and motor. This can be done only by operating the motor as the water is being released. The bottom of the carburetor should be removed to allow the dirt and sediment to wash out, and the sediment bulb on the bottom of the gas tank should be washed by allowing at least one pint of gasoline to run through it.

All rakes, shovels, hoes, hose, brooms, spades, sprinklers and other small tools and equipment shall be inspected, renovated, oiled or greased, and re-painted to assure of their being in perfect condition for the new season.

Spike rollers shall be cleaned of all dirt, and plain rollers cleaned and oiled to prevent rust.

Compost mixers, scrapers, top-dressing spreaders, tee buckets and stands, benches, and, in fact, all golf course equipment will be completely rejuvenated and placed in perfect condition by the good greenkeeper in a systematic manner that the entire plant will be ready for operation before spring arrives. This requires conscientious and painstaking effort on the part of

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the greenkeeper or his first assistant to not only paint but repair in good workmanship manner absolutely every tool and piece of equipment on his course while it is not possible to work on the golf course. The greenkeeper who does this saves his club many hundreds of dollars each year, or can save for his club at least \$500.00 each season.

Toro's Suggestion

Winter overhauling practice for Toro equipment as suggested by M. R. McLaren, Toro's Service Manager, follows:

"If best results are to be secured during the operating season all Toro equipment should be thoroughly overhauled and cleaned during the closed winter season.

"Tractor motors should be disassembled, carbon cleaned, valves ground, bearings taken up, piston rings replaced, magnets cleaned and retimed, and carburetors overhauled and adjusted properly.

"Transmission case should be flushed out, cleaned thoroughly and refilled with fresh lubricant; radiator should be drained and cleaned with a soda solution and all dirt, dead grass, and accumulations

should be brushed from radiator core.

"The entire tractor should be repainted, and new transfers put on, which the Toro company will be glad to supply at no cost.

"Mowers should be disassembled, thoroughly cleaned out with gasoline, all worn parts should be replaced, the mowers reground, reels trued up, reassembled and repainted.

"Miscellaneous equipment such as dump wagons, compost machines and top dressers should be cleaned thoroughly and repainted with a good grade of weather-resisting paint."

Go Slow Ideal's Advice

IDEAL Power Lawn Mower company says: Most clubs realize the importance of having their mowers ready for use at the start of the grass cutting season and recondition them during the winter months. The following brief instructions are intended for golf clubs that do this work themselves instead of having it done by some outside concern:

"To recondition the cutting units of fairway mowers, it is necessary that all of the working parts be inspected so as to

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determine their condition. The Ideal 'Bull Dog' cutting unit is of the low wheeled type with simple pinion and pawl drive, and the few moving parts are easy to disassemble and reassemble.

"Remove the drive wheels and the side frames; clean the bearings, pinions and the inside of the drive wheels using kerosene or gasoline for this purpose. Be sure all of the old grease or hard oil is removed. If any parts should show excessive wear, they should be replaced with new parts to insure against the possibility of having equipment laid up during the summer months. Then pack the bearings in hard oil or cup grease and reassemble the unit. Where a grinding machine is available it is easy to sharpen both the revolving cutter and the bottom knife, complete instructions being furnished by the manufacturer of the grinder. If a grinding machine is not available and the revolving cutter is in fairly good condition, it may be sharpened as follows: Remove the high spots with a file, filing the blade on a bevel so that the back of the blade will have ample clearance. Next, make the necessary adjustments. Be sure to adjust the revolving cutter first, and then the bottom knife.

"The knives may now be brought to a keen edge by lapping them in with a paste made of emery dust and oil. Spread a small quantity of this paste evenly along the edge of the bottom knife. Remove the wheels and change the pinions, putting the left hand pinion on the right hand side, and the right hand pinion on the left hand side. Replace the wheels. The blades can now be turned backward, either by turning the wheel by hand or pushing the mower backward on the floor. After this has been done, be sure to place the pinions in their original positions, wipe off the excess emery and oil, and readjust the revolving cutter. It is advisable to put plenty of oil on the cutting edges to prevent them from rusting during the time they are not in use.

"It is very seldom that the frame will be in need of repair. However, it is advisable to see that the push arms and the other parts which attach the unit to the frame are not worn to the extent that they will allow the cutting unit to run out of alignment when the outfit is in operation. Of course, all bearings on the frame should be oiled before the mower is stored for the winter.

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