

# **BINAR** GIVES UNHEARD-OF FLEXIBILITY

Call on any one of four individual watering programs built into every BINAR programmer. Change all timing with one switch, repeat valve operation during a single watering cycle, change valve sequence any time, reprogram the entire system (in about 10 minutes) from one location, use a portable field control unit for those touch-up jobs — and on and on and on!!

**BINAR Central Programmer Model CP-2:** A 2 wire solid state central programmer designed specifically to meet the irrigation needs of the most demanding turf specialist.

**Station-Valve Assignments:** After programming the "Patch board" the programmer automatically operates every valve in its assigned station sequence. It's as easy as 1-2-3.

**Johns-Manville Irrigation Corporation -** Backed by over 100 years of Johns-Manville experience, the producers of Ring-Tite Transite and PVC Pipes. Another J-M Irrigation first.

**Program A:** A 40 station program with timing that can be varied between 2½ to 60 minutes.

**Greens and Tees:** Push one button to program the watering for Greens and/or Tees only.

**Assignment:** A further refinement to permit watering of Greens and/or Tees during any one of four selective periods throughout the normal watering cycle.

**Syringe:** Dew wash - Frost wash Greens and/or Tees only. OR, syringe the entire course. Variable timing from 2½ to 10 minutes.

**Station:** The number of the station in operation lights up for quick identification of what's happening where.

**Starting Clock:** A 24 hour, -15 minute interval starting clock.

**Program Selector Clock:** A 14 day clock to operate Programs A and/or B in any combination to meet your watering needs.

**Program B:** A second 40 station program for supplemental or other special watering needs.

**Time Multiplier:** Reduce by 50% or double the amount of water desired with one switch. Eliminates resetting multiple field station timers.

**Manual:** Manually water any station on Programs A or B.

**Auto:** Switch position for automatic (clock) starting.

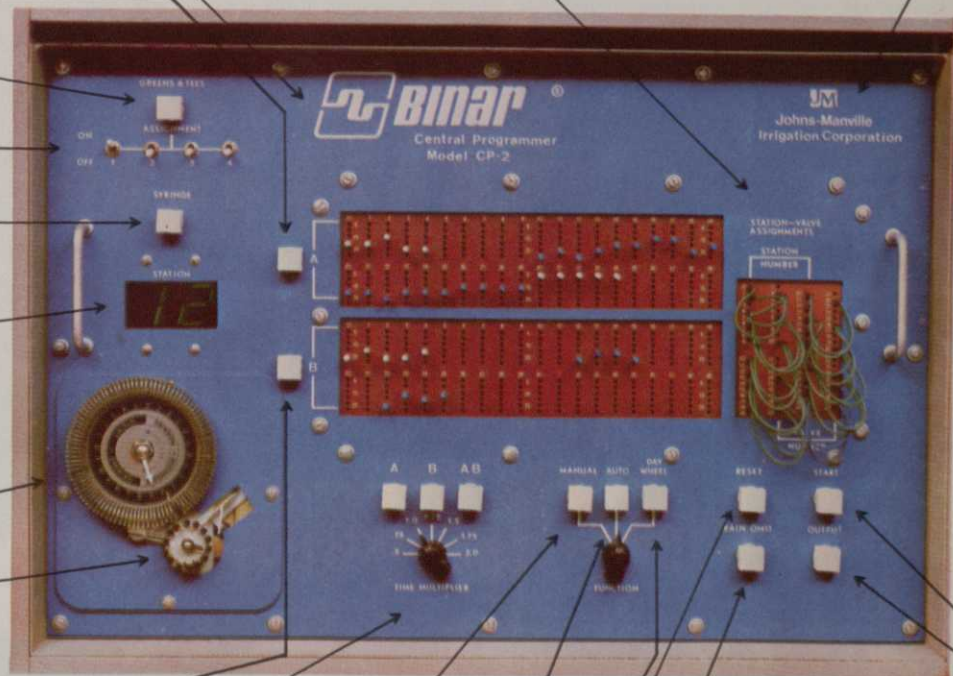
**Day Wheel:** Switch position for 14 day program selector clock.

**Rain Omit:** Push button to override operation of all programs during times when watering is not required.

**Reset:** Instant stop and program reset button.

**Output:** When the output light is on you're assured the watering schedule is progressing properly.

**Start:** Manually start any program. (By pass 24 hour starting clock.)



**NOTE:** BINAR has been designed specifically for golf course irrigation only. A system that is flexible enough to meet the superintendent's most rigid demands for varying turf, soil and weather conditions.

**If your course is worth irrigation, it's worth *Binar***

Why delay — send for our new 6-page 4 color brochure today.



**Johns-Manville  
Irrigation Corporation**

Box 279, Manasquan, N.J. 02736

201-223-5350

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Photographed at Pocono Manor Inn and Golf Club, Pocono Manor, Pennsylvania.

## Go for a quiet drive: Harley-Davidson.

When you shoot, you want silence. You get it from Harley-Davidson gasoline golf cars. Thanks to the unique ignition system, which starts and stops the engine as you press and release the accelerator. When you want it quiet, simply lift

your foot off the pedal. And play your next shot, in absolute silence. When you're ready to move on, just depress the accelerator, and off you go. Quietly. As a matter of fact, a Harley-Davidson gas car on the move is quieter than normal

conversation. And far quieter than any other gas car on the circuit. Harley-Davidson golf cars, gas or electric—very quiet complements for your course. AMF | HARLEY-DAVIDSON, Milwaukee, Wis. 53201.



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## Conventions and conferences

**Club Managers Assn. of America's** 45th Annual Convention at the Regency Hyatt House, February 14th to 19th promises to be the most intensely business-like conclave that organization has had. Part of the conference time will be taken up by the **National Club Assn.** tax clinic. This clinic will survey a complex situation that threatens the existence of private clubs, regardless of what their members consider to be their constitutional rights. NCA recently reviewed an IRS ruling which allows clubs to hold major established championships and retain private club not-for-profit status. Tax situations on other tournaments are so hazy that big money tournaments conducted as advertising stunts may be restricted to fee courses.

Managers now face the problem of dwindling membership rolls, a reversal of a trend which saw for 18 years increasing memberships, according to a report by **Harris-Kerr-Forster & Company**.

That statistical review of 75 country clubs for fiscal year through June 30, 1971, shows net course maintenance expenses were 8.8 per cent greater this year than last and that over the last 15 years maintenance costs have risen more than 86 per cent.

The club auditing specialists reported that over-all average cost per hole was \$4,924; for Eastern clubs the figure was \$5,318; Southern clubs, \$4,441; midwestern, \$4,505 and Far Western, \$5,383.

The figures cover 75 clubs selected from 200. Logically larger and efficiently operated clubs would use this sort of specialized accounting service. The auditors can't get the figures to tell the story of conditions governing maintenance or the character of management; only the figures in

payroll, payroll taxes and benefits, course supplies and contracts, repairs to course equipment, the buildings, water and drainage systems and "all other expenses." The Harris-Kerr & Forster report gives a basis for every club to compare their own financial story with that of other clubs in their localities. And make that comparison before the officials do—the smart superintendent does. He might find a hunch for improvement and he's better qualified to do that than anybody else if he's really good.

Competent management of a golf course is above money these days. The worst managed club I've seen in years had spent last year more than \$120,500.

At the **Golf Course Superintendents Assn.** Conference and Equipment Show, Cincinnati Exposition Center, February 13th to 18th, labor recruiting and training will get considerable study despite what you read about the job shortage. Superintendents are inclined to believe that many men cannot work because they don't want to work. In some areas college students are part-time workers, but haven't responded to urgent invitations from superintendents. Superintendents are wondering if they shouldn't pay more per hour and maybe get better results. But the policy would screw up all clubs in the area.

**Eugene Maples** became superintendent at Pinehurst's five courses when his father, Henson, resigned. Henson had been superintendent there for 30 years. Eugene's grandfather, Frank, who preceded Henson in the job, started at Pinehurst when Donald Ross was pro and architect there. When Frank was there greens were oiled sand. The Maples family has had great influence in upgrading grooming of southeastern golf courses. □

## Famous For Championship Performance



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1971 MASTERS CHAMPION  
WINNER WORLD SERIES OF GOLF  
Member H&B Golf Advisory Staff



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RETAILING  
FROM \$17.95
- 15 STYLES—  
DOZENS OF  
GREAT COLORS
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BELT LOOPS,  
STRAIGHT LEGS

**DON'T MISS US AT  
THE PGA SHOW**

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## THE BROADLEAF DOUBLES MATCH!

We haven't found a broadleaf weed in any kind of grass that we can't control. We're still trying, but we feel we've found their match. It's called "Trimec" Turf Herbicide and it has a clean, solid swing.

Save time and effort in the control of Broadleaf weeds. "Trimec" can give positive control of those hard to kill broadleaf weeds in the cool season as well as in mid-summer. "Trimec" is a new patented herbicide. It enables turf specialists to get the weed control job done with greater safety to grass, with less product and fewer applications than with other herbicides now being used.

Whatever the lie, fairway or green, choose GORDON'S FAIRWAY BROADLEAF HERBICIDE and BENTGRASS BROADLEAF HERBICIDE. They both contain "Trimec" Turf Herbicide and you will be the winner of the broadleaf doubles match.

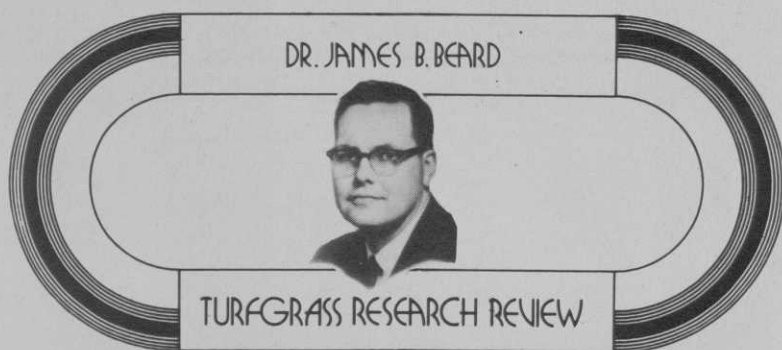


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**"TRIMEC"®**  
TURF HERBICIDE  
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### Bent resistance to snow mold

*Snow mold diseases on bentgrasses. R.R. Muse. 1970. Ohio Agricultural Research and Development Center Research Summary 48. pp. 23-25. (from the Department of Plant Pathology, Ohio Agricultural Research and Development Center, Wooster, Ohio 44691).*

This paper summarizes the relative susceptibility of 16 bentgrass varieties to *Typhula* blight, which was the predominate snow mold causing organism identified on the experimental area. The ratings were taken March 15th at the Ohio Agricultural Research and Development Center following a winter in which the temperature and precipitation were ideal for snow mold infection. The bentgrass plot area had a maintenance history involving two cutting heights of 0.25 and 0.5 inch. Each variety was replicated four times.

Bentgrass varieties exhibiting the least snow mold, ranked in order from least to greater infection, were Congressional, Pennpar, Astoria, Exeter and Nimisila. The varieties most severely infected with snow mold were Evansville, Springfield and Cohansey, ranked from most to less severely infected. Varieties ranked intermediate were Penncross, Seaside, Toronto and Highland.

An additional general observation from the experimental area was that the incidence of *Typhula* blight was greater on the bentgrass varieties when cut at 0.50 inch compared to the lower 0.25 inch cutting height. *Comments: Typhula* blight (*Typhula itoanna*) or gray snow mold results in grayish-white, circular patches of dead turf ranging in diameter up to 24 inches. When active, a light gray mycelium can be observed on the turfgrass leaves. It is most conspicuous immediately after the first spring thaws. The disease may cause

turfgrass damage any time during the late fall, winter or early spring period when environmental conditions are favorable. Disease development usually occurs under conditions of high atmospheric humidity plus air temperatures in the range of 33° to 40°F. This is a condition that frequently occurs under a snow cover, particularly when the soil is not frozen.

It is quite evident from this research report and earlier observations that considerable variation in susceptibility to *Typhula* blight does occur among the bentgrasses.

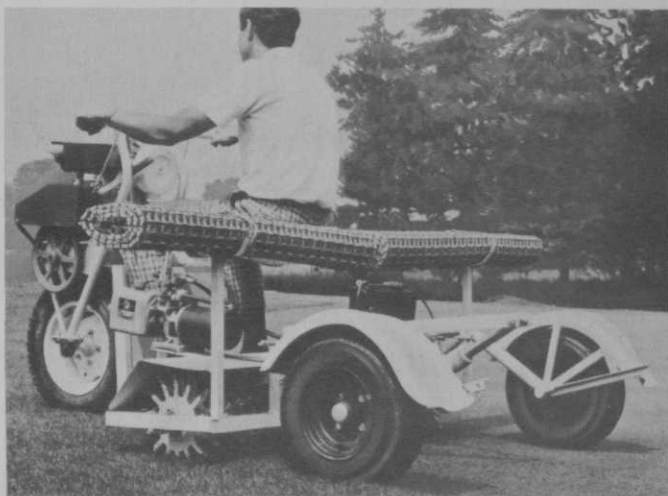
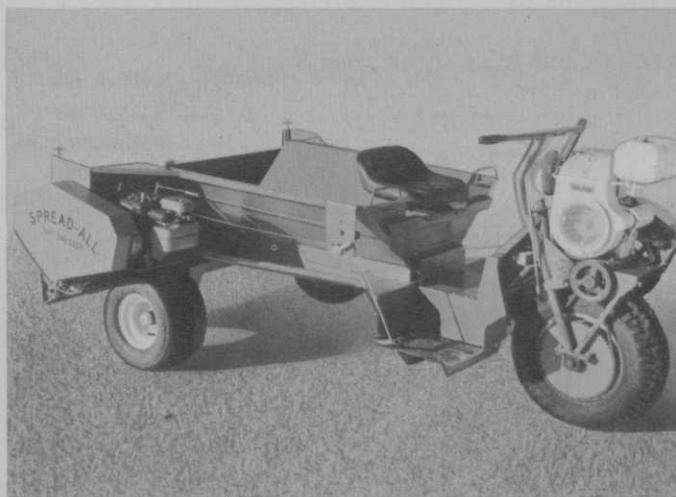
Thus, relative *Typhula* blight susceptibility should be considered in selecting the particular variety to be used. This is more important on turfgrass areas where it is not economical or practical to apply a preventive fungicide.

The reduced incidence of disease at the 0.25 inch cutting height versus the 0.50 inch cutting height suggests that this cultural practice should also be considered in minimizing the incidence of *Typhula* blight on bentgrass turfs.

This discussion covered the *Typhula* blight winter disease only. There are several other organisms which can cause serious injury to turfs that are included in a general grouping of the snow mold diseases. The most common is *Fusarium* blight (*Fusarium nivale*) which produces similar circular patches of up to 24 inches in diameter but has a characteristic pink mycelium when the casual organism is actively growing. This latter disease is commonly known as pink snow mold. It may respond differently in terms of relative bentgrass varietal susceptibility, fungicide control and effects of cultural practices compared to the responses discussed in this article for the *Typhula* blight disease. □

# NEW in '72

*Little Beaver Greens Spiker* ▶



◀ *Top Rider*—our new top dresser



*Trap Rider*—unique new trap rake ▶

See them all . . .

THE INTERNATIONAL TURF GRASS CONFERENCE and SHOW

Cincinnati, Ohio • February 13th to 18th

Booth No. ISLAND X

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## DON'T JUST TAKE OUR WORD FOR IT

On June 23, 1971,  
the Environmental Protection Agency  
issued amended registration 8959-1  
for CUTRINE algaecide.

CUTRINE is now registered by the  
E.P.A. for use in:

**POTABLE WATER RESERVOIRS!**  
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### FOR NON-CROP USES IN .....

Water from treated lakes or ponds may  
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greens and ornamental plants.

This sticker is an extension of CUT-  
RINE's registered label in several states  
and appears on all CUTRINE containers  
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# CUTRINE

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Let's Talk About It

At Booth I-25

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Cincinnati

Feb. 13-18

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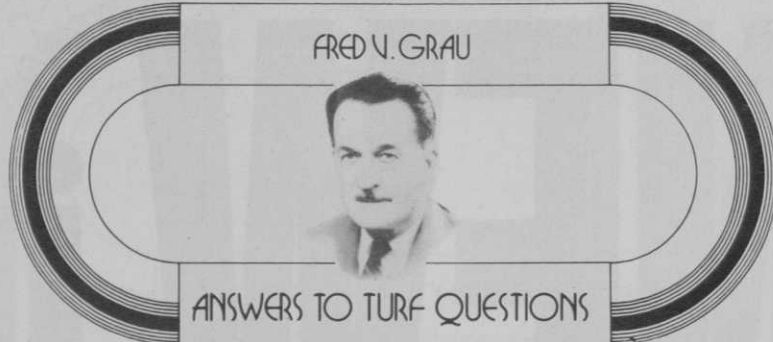
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**APPLIED BIOCHEMISTS, INC.**

P.O. Box 25

Mequan, Wisconsin 53092

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### Professional proficiency

This term may seem unfamiliar to many readers, partly because it is not in general use. "Just what does it mean?" you may ask. To be blunt and direct, we interpret it to mean "the degree of acceptance of modern methods that enhance the profession."

Each turfgrass manager can best evaluate his own PP by rating his performance in several categories, each of which is part and parcel of his professional standing.

1) Turfgrass conferences and field days. The latest findings and progress reports are distributed and shown at these events. Not attending means that the vital information must be gathered second-hand. Delays in acquiring and using up-to-date data can be costly to the professional turfgrass manager and to his employer. Ten points for each event attended—a big fat zero if you didn't attend any.

2) Use of improved turfgrasses that have been released and are available on the market. Research institutions are very conscientious about thoroughly testing a new grass before it is released and increased for general usage. Turfgrass managers would do well to be equally conscientious in acquiring seed or stolons of the new releases to plant in a nursery for observation side by side with the ones currently in use. Ten points for a nursery plot of each new grass; five points for each tee, each fairway and each green in a new improved grass.

3) Use of new efficiency machines that release labor for other tasks and which contribute to better turf for the user. Aerating machines still count even though the first one was built in 1946—25 years ago. Recent developments include scarifier-seeders, three-gang putting green mowers with vertical mower attachments, hydroseeders, sweepers, core shredders and trap rakes, among others.

Ten points for each modern machine in use.

4) Self improvement efforts. One is never too old to learn. There are courses offered in ecology, letter-writing, public speaking, accounting, business administration, plant protectants and many others. Some can be self-acquired by private reading, others may be obtained through non-credit courses at universities, community colleges or private schools. Ten points for each bona-fide effort in this direction.

5) Library. Books on turfgrass management and related subjects are essential to one's professional standing. An education is measured not so much by what one knows as by knowing where to find information when it is needed. Five points for each book on the shelf in the superintendent's office.

6) Communications. The professional man writes letters proficiently, dresses well, speaks well and welcomes opportunities to address gatherings of superintendents, home owners and others. He cultivates a friendly telephone voice and writes reports for his newsletter, for the local sports scribe and for his employer. He prepares a professional brochure on himself in case of an offer to move and to better himself, and he keeps it up-to-date. Ten points for the brochure, ten each for each speaking engagement and written report.

7) Certification is the latest device designed to place the superintendent on a true professional basis. The Golf Course Superintendents Assn. of America is to be commended for the effort that it has expended in developing the details of this worthwhile project. We hope for widespread participation.

Note: The "points" suggested for active participation represents a bit of whimsy of the part of this writer. No one is expected to actually tally

*(Continued on page 97)*

# Our new little car. We'll put it up against anybody else's big one.

The new 3-wheeled Trophy is the lowest priced Cushman® golf car.

At just 43 inches wide, it's also the most compact. But what the Trophy gives up in inches it doesn't give up in quality.

It's tougher than any other brand on the market, compact or not. Its bumper was tested and found to prevent golf car body damage from a head-on collision with a flat stationary object at speeds up to 5 mph! It's body is made of steel panels, coated with lead, epoxy primed and painted with automotive paints. It not only resists corrosion and damage, it defies them.

The Trophy is loaded with more standard features than most other cars offer as extra-cost options. Automotive steering, automatic seat brake, comfortable, deep foam bucket-type seats, and upright bag racks with easy-on, easy-off adjustable bag restrainers are just a few of the more obvious ones.

In short, the Trophy performs as well and looks as good and will probably last

longer than any other car you can buy, whether it's bigger, smaller, longer, shorter, lighter, heavier or what...except another Cushman.

## The Trophy Challenge

The Trophy is a winner. We'll prove it to you. You provide the course, we'll provide the Trophy for you to test drive.

If you want, you can get any competitive car and we'll put the Trophy right up against it.

Price, performance, features, ride, range, ruggedness...you compare them, you be the judge. Fair enough?

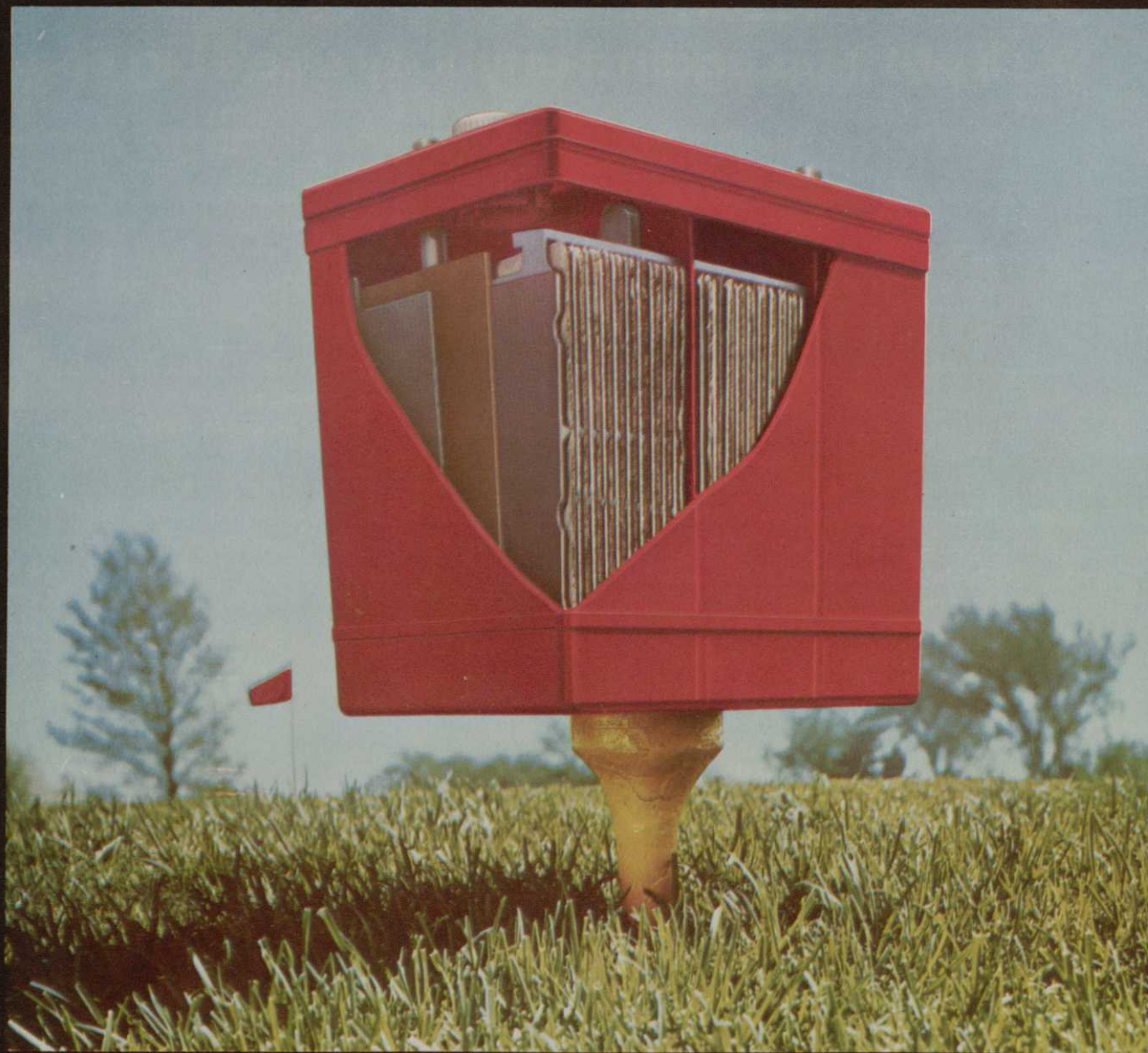
To arrange a Trophy Challenge on your course, write us direct and we'll arrange it through your local Cushman Distributor.

Cushman Motors Division, Outboard Marine Corporation, 1002 North 21st Street, Lincoln, Nebraska 68501.

## Cushman



The new 3-wheeled Trophy



## **You wouldn't think this heavyweight could be so light weight.**

A 6-battery set of Gould POWER BREEDS® weighs up to 42 pounds less than its hard-rubber brethren. Quite a load to get off your golf car, your turf and your mind.

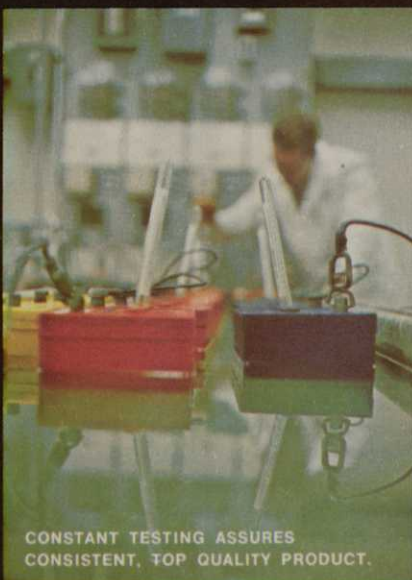
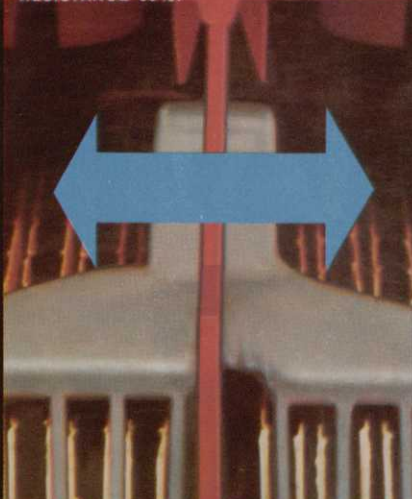
The weight comes out of the case. We use light, tough, thin-walled Polypropylene that leaves 18% more space inside for more powermakers (lead and electrolyte). And those thin

walls are no cause for worry. Polypropylene has 20 times the strength of hard rubber. And we heat/pressure fuse cover and container into a single, virtually inseparable unit.

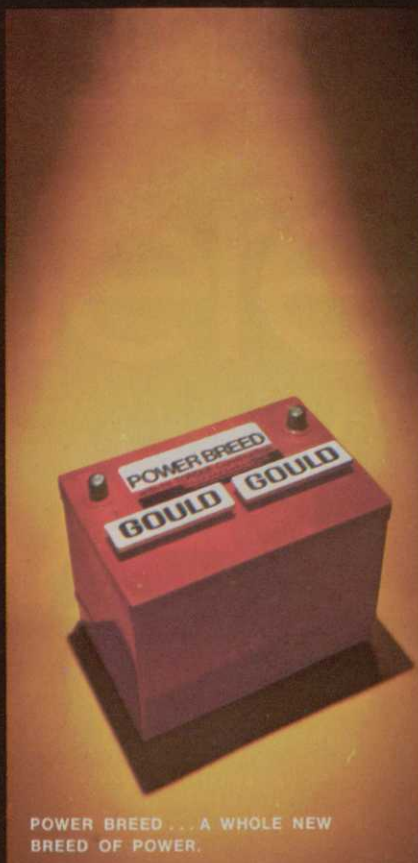
Of course, light weight isn't the sole reason for POWER BREED being the heavyweight performer it is. Patented Hi-Torque intercell connectors shorten the power path



HI-TORQUE<sup>®</sup> INTERCELL CONNECTORS  
SHORTEN POWER PATH 35% — REDUCE  
RESISTANCE 65%.



CONSTANT TESTING ASSURES  
CONSISTENT, TOP QUALITY PRODUCT.



POWER BREED... A WHOLE NEW  
BREED OF POWER.



QUARTER TURN SPRAY LOK VENT CAPS  
SPEED SERVICING — REDUCE ACID SPRAY.



HEAT/PRESSURE SEALING OF TOP &  
CONTAINER FORMS A SINGLE, LEAKPROOF  
PIECE OF PLASTIC.



MOST ADVANCED, AUTOMATED  
PRODUCTION/TESTING LINE FOR PLASTIC  
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35%; reduce resistance 65%. Then we use specially alloyed grid metals, a new high density oxide formula, dual purpose separators, new self-aligning plate construction, quarter turn Spray-Lok<sup>®</sup> vent caps to speed and simplify servicing — technical talk that translates thus: the POWER BREED is a powerful endurance type battery. It is designed and

engineered to operate efficiently in cycle-service operations (where battery power is total power). We built it to be powerful. Carefree. Ready.

After all, the pro in charge of equipment deserves a breather at the 19th hole, too. For information write: GOULD, INC., Sales Dep't., Automotive Battery Division, P.O. Box 3140, St. Paul, Minn. 55165.

# The car of the year.

This year, when almost everybody else is introducing a '72 golf car that's really a '71, we're introducing a '72 golf car that's really a '72. With changes that amount to a lot more than plastic surgery.

Such as the new side rub rail and foot rest that we added to protect the fiberglass body and dash assembly. Coupled with our spring steel bumpers, this new feature gives our car the most protection ever.

Then there's an improved body hold down system to permit easy access to the motor and batteries. Except you probably won't be using it very much. Because what it gives access to is the most efficient and maintenance-free drive system on the market.

There's also an improved speed control system to give you smoother, safer starts. And there's an improved brake system to give you smoother, safer stops.

And you know how some golf cars want to

keep on going even after you use the parking brake? The 1972 Pargo isn't one of them. Because we developed a parking system that holds every time.

For comfort and convenience, we also developed a golf bag mount that protects and holds any size golf bag securely every time. We recessed the wheels to keep water and dirt from spraying the golfer. We installed new drink holders and individual accessory pockets. We added a score card holder to the passenger's side.

We even restyled the body, designing it to fit previous Pargo models. And we did a lot more our sales manager would like to tell you about.

For a demonstration and name of your nearest dealer, write Ron Meade at Pargo, Inc., P.O. Box 5544, Charlotte, N.C. 28205. Or call him at (704) 596-6550. No matter what you ask him about Pargo, one thing's for sure: He won't tell you the same story you heard last year.



## Pargo, Inc.

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