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Best of both worlds

The maintenance technician for the new FGCSA research green at the Fort Lauderdale REC likes the hands-on approach to turf research

Marcus Prevatte admits he loves to play golf, but he's willing to give up some playing time in order to be involved with the FGCSA's new experimental putting green at the University of Florida's Fort Lauderdale Research and Education Center.

Prevatte was recently given the contract to maintain the green and help IFAS researchers at the center take care of other turfgrass plots.

"There are a lot of questions about putting turf that need to be answered," Prevatte says. "This green could provide some of those answers."

Dr. Monica Elliott, assistant professor of plant pathology at the center, estimates that

the green will be green by the Fourth of July. The irrigation system had been installed and fumigation, fertilization and planting were scheduled as this section of *The Florida Green* went to press.

The research green is not Prevatte's first experience with golf course maintenance. During his four years at Florida International University, where he earned a degree in biology, Prevatte worked at Palmetto GC in Dade County. He began as a night waterman and was a mower operator by the time he left.



"The research interests me," he said, "but I also enjoy being more active and I like working on a golf course. By maintaining the new test green, I'll be able to help the researchers with their experiments and also get some practical experience."

There's a bonus for Prevatte, 26, who is uncertain about his future.

"I enjoy research but I'm also considering becoming an assistant golf course superintendent. The work at the center lets me explore both areas and gives me a chance to meet people in the industry. Right now, this is the best possible place to be."

Prevatte, who is single and lives in South Miami, will tend the green about 30 hours a week. He is paid by the FGCSA from a special research fund raised specifically for building and maintaining the green and other turfgrass plots at the Fort Lauderdale REC.

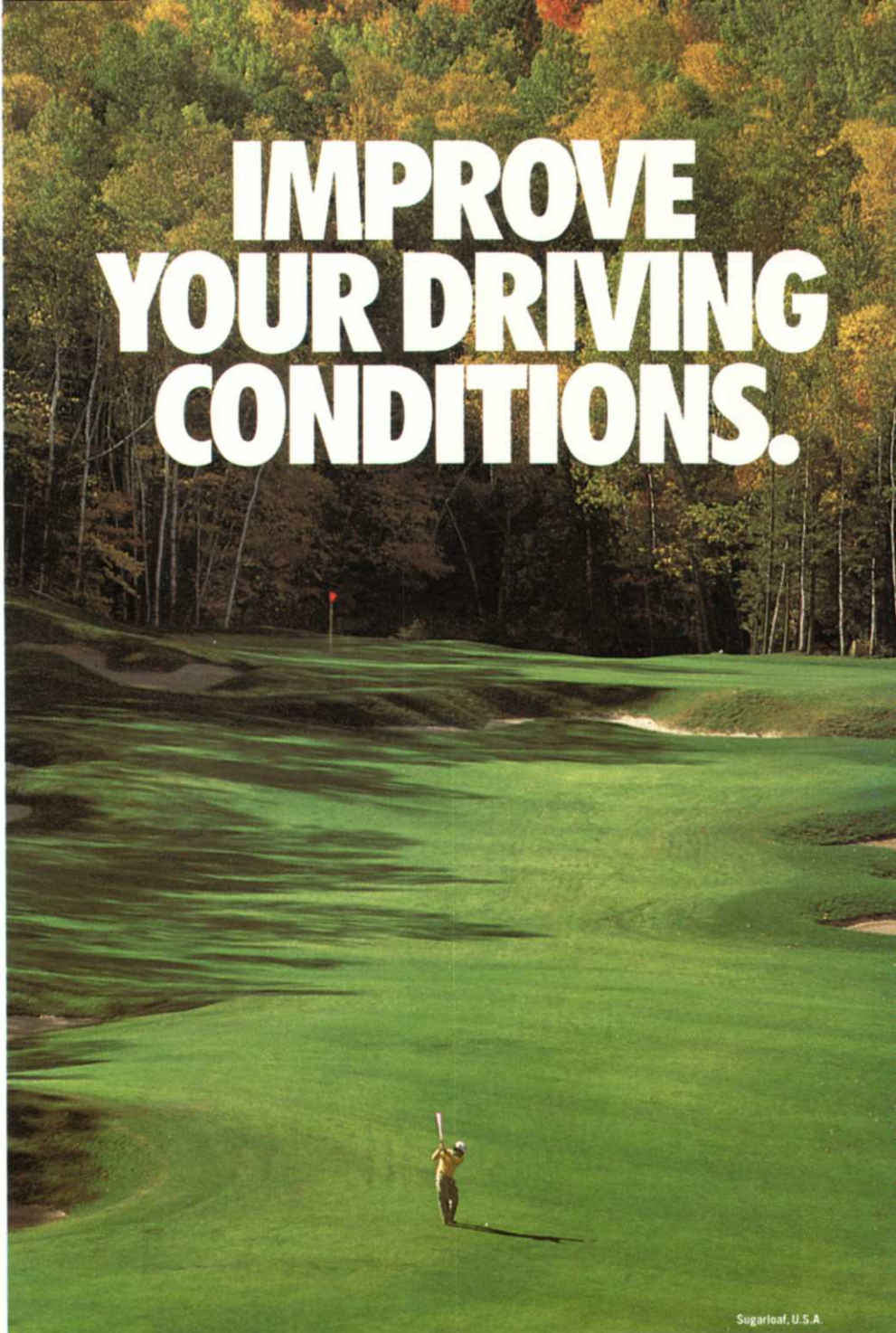
Kit Bradshaw

South Florida Field Day yields \$14,000

A total of 144 superintendents and technicians plus 28 suppliers raised \$14,000 for turf research at the Third Annual South Florida GCSA Field Day April 12 at Rolling Hills Golf Resort in Fort Lauderdale.

In addition, many superintendents and technicians renewed their pesticide licenses and obtained CEUs for certification while suppliers showed off their hardware for two hours at an

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control. ORTHENE supplies long-lasting residual action against other insects including tent caterpillars, aphids and thrips.

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Field Day

from page 33

indoor trade show and then demonstrated their heavy equipment for another two hours after lunch. Each distributor was allotted three minutes per machine (photo right). Attendance, limited to members of any FGCSA chapter, was up slightly over last year, according to Marie Roberts,



who serves both the state association and the South Florida chapter as executive secretary.

Oliver wins Poa

Rain shortened the Everglades GCSA's annual Poa Annuu Classic at the Naples Beach Club to nine holes May 22, but David Oliver of Martin Downs CC in Stuart won low gross honors for his third major FGCSA title in less than 12 months. Oliver won last year's Crowfoot Open at Grand Cypress in Orlando and Transition Tournament at Palm Coast.



Team title went to the host chapter: Mark Atwood, Jack Simpson, Wayne Kappauf, Lou Conzelmann. Atwood (photo right) was Master of Ceremonies at

the banquet. Among the honored guests were (above, from left) GCSAA President Jerry Faubel, FGCSA President Joel Jackson and former GCSAA and FGCSA President Dick Blake.



Central Florida mechanics meet

Golf course mechanics in Central Florida organized at the Second Annual Central Florida GCSA Field Day at Orange Tree CC in Orlando April 30. (Photo below) Cary Lewis, CGCS, of the CC of Orlando, addressed the organizational meeting which attracted 19 mechanics. The group will elect officers this month.



Everglades honors Joneses

Dan and Irene Jones, (photo above recently retired editors of *The Florida Green*, were honored with a plaque and permanent invitation to the Poa Annuu Classic by Everglades GCSA President Mark Atwood (center) at the Poa banquet.



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Rebuild... and save \$200,000

With five mechanics on staff, Boca Woods rebuilt 20 major pieces of equipment and saved a lot of money

BY LARRY KIEFFER



The shop team at Boca

Woods: mechanics

Jerry Napolitano, Robert

Jones, Dennis Kelley, Don

Lanning and John

Hindman

The directors of Boca Woods Country Club were incredulous.

They guessed that Superintendent John Gallagher and Greens Chairman Bernard Bernstein had a surprise in store when the pair asked the club's board to conclude its regular meeting with a little party at the newly refurbished maintenance complex.

And they were duly impressed with the brilliantly lit, white, sanitary setting. Remembering the dingy conditions of less than a year before when the members took over the 36-hole country club from the developer, the directors could see that Gallagher and his crew had been working very hard.

The improvement to the shop's appearance was particularly dramatic when it was filled with all those bright, shiny tractors, mowers and sweepers lined up with parade-ground precision.

After suffering through a lengthy ownership transition during which the developer spent as little as possible on golf course maintenance, the directors were pleased to see some obviously reliable machinery in tip-top condition. In those last months before the buyout was officially closed Nov. 1, 1988, it had been impossible to complete an 18-hole round without seeing at least one piece of maintenance equipment abandoned in the rough, awaiting a tow back to the shop... if something to tow it in could be started.

It would take several years, the directors knew, before all the worn-out machinery could be replaced, but at least they had made a start.

They assumed that they had been invited to inspect the first batch of new equipment, and that's why their eyes were not prepared to believe what their ears had just told them.

"Every piece of equipment you see in here," said Gallagher at the end of the party, "— well, every piece but one — is the same equipment that you bought when you took over from the developer. With one exception, these are all 1981- to 1984-model machines that we rebuilt right here in the shop.

"One is brand new. Can you pick it out?"

Nobody could.



John Gallagher and "the boss"

"That's when I knew we had really accomplished something," said Gallagher, savoring the moment several months later in his office.

What Gallagher's mechanics had done in about a year's time was completely rebuild 20 major pieces of maintenance equipment, saving the members more than \$210,000.



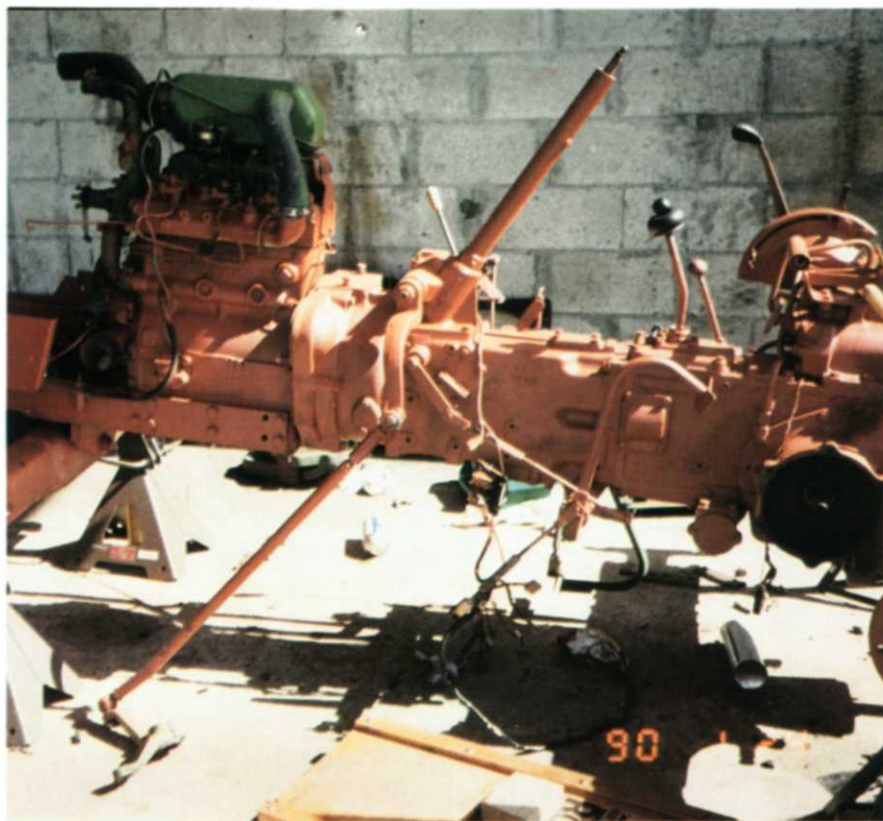
One of these tractors is brand new; the others have been rebuilt. Can you guess the new one? Answer next issue.

"That was all equipment that otherwise would have had to have been replaced," Gallagher said. "The replacement value today is \$290,765. We spent less than \$80,000 to make it exactly like new.

"Don is the key," he said, referring to Don Lanning, Boca Woods' chief mechanic and shop foreman, who had worked with Gallagher for three years at Coral Ridge CC in Fort Lauderdale.

Gallagher came to Boca Woods from Boca Del Mar after the members bought the facility. He immediately recruited Lanning.

Shortly after the pair began discussing Lanning's possible move to Boca Woods, Gallagher got a call from John Hindman, who had been chief



Every piece gets stripped to bare metal

| Equipment | New | Rebuild |
|---------------------------------------|------------------|-----------------|
| Toro Workmaster (1981) | \$6,600 | \$1,800 |
| Toro Workmaster (1981) | 6,600 | 1,500 |
| Toro Workmaster (1981) | 6,600 | 1,800 |
| Yamahauler (Reconditioned) | 3,700 | 1,500 |
| Yamahauler (1986) | 3,700 | 1,000 |
| Yamahauler (1985) | 3,700 | 2,000 |
| Sweeper | 17,500 | 4,000 |
| Lesco 7-gang rough mower (1985) | 15,700 | 5,000 |
| Lesco 7-gang fairway mower (1987) | 16,100 | 5,000 |
| Toro 7-gang rough mower (1985) | 22,165 | 6,000 |
| Toro sand trap rake (1984) | 7,400 | 1,500 |
| John Deere tractor (1981) | 15,000 | 4,500 |
| John Deere tractor (1981) | 15,000 | 9,000 |
| Massey Ferguson tractor (1987) | 15,000 | 1,000 |
| Ransomes 350D (1984) | 38,000 | 6,000 |
| Ransomes 350D (1984) | 38,000 | 6,000 |
| Toro 72-inch out-front sweeper (1981) | 12,500 | 6,000 |
| Toro 72-inch out-front mower (1981) | 12,500 | 6,000 |
| Toro sweeper | 17,500 | 4,000 |
| Toro sweeper | 17,500 | 4,000 |
| 20 pieces of equipment rebuilt | \$290,765 | \$77,600 |

mechanic under Gallagher at Boca Del Mar CC in Boca Raton. Hindman was working with a manufacturer and wanted to get back to a golf course.

"Lo-o-o-o-kee here!' I said to myself," recalls Gallagher. "I've got the chance to get two of the best mechanics in the business.' So the three of us sat down with a pot of coffee and worked it out. Don would be the chief mechanic and shop foreman; John would be the assistant. And we were all comfortable with that."

By rebuilding

his basic

equipment,

Gallagher can

think about

buying

specialty items

like a backhoe

or bucket truck

Three other mechanics — Jerry Napolitano, Dennis Kelley and Robert Jones — complete the Boca Woods shop team.

"A lot of superintendents have asked me how I can afford to have a shop foreman and four mechanics," Gallagher says. "At a 36-hole operation, how can you afford *not* to? Look at what we have done. And we can

READ

...the fine print.

Net Weight 61⁷/₈ lbs

CAUTION: PLEASE KEEP OUT OF THE REACH OF CHILDREN. EYE CONTACT WITH CONTENTS MAY CAUSE IRRITATION. FLUSH EYES WITH WATER AS SOON AS POSSIBLE.

ProTurf Fairway Fertilizer 32-9-10 649-8408

Guaranteed Analysis

| | |
|--|-----|
| Total nitrogen (N) | 32% |
| 0.8% ammoniacal nitrogen | |
| 24.6% urea, methylene urea, urea nitrogen | |
| 6.7% water insoluble nitrogen | |
| Available phosphoric acid (P ₂ O ₅) | 9% |

Scott's ProTurf

GUARANTEED ANALYSIS

| | |
|--|------|
| Total Nitrogen (N) | 10% |
| 8.0% Water Insoluble Nitrogen | |
| 3.0% Ammoniacal Nitrogen | |
| 3.0% Urea Nitrogen | |
| Available Phosphoric Acid (P ₂ O ₅) | 5% |
| Soluble Potash (K ₂ O) | 9% |
| Magnesium (Mg) | 10% |
| Sulfur (S) | 8.0% |
| Iron (Fe) | 1.0% |
| Manganese (Mn) | 0.0% |

Nutrient Sources: Urea, Methylene Urea, Ammonium Phosphate, Ammonium Sulfate, Ammoniated Superphosphate, Sulfate of Potash, Oxides, Ferrous Sulfate, Sulfates.
Potential Acidity Equivalent 1300 lbs. Calcium Carbonate per Ton.

Lebanon Country Club

GUARANTEED ANALYSIS

| | |
|--|-------|
| TOTAL NITROGEN (N) | 24.0% |
| 1.6% Ammoniacal Nitrogen | |
| 11.6% Urea Nitrogen | |
| 10.8% Water Insoluble Nitrogen | |
| AVAILABLE PHOSPHORIC ACID (P ₂ O ₅) | 4.0% |
| SOLUBLE POTASH (K ₂ O) | 12.0% |
| Magnesium (Mg) | 0.7% |
| Sulfur (S) | 5.0% |
| Iron (Fe) | 0.4% |

Derived from ammonium phosphate, isobutylidene diurea, urea, sulfate of potash, sulfate of potash-magnesia and iron sulfate. Potential Acidity 1000 lbs. Calcium Carbonate Equivalent per ton.
Manufactured by Vigoro Industries, Inc.
Fairview Heights, Illinois 62208.

Par Ex

Down in the analysis area on every fertilizer bag, you'll find the "fine print" that tells you what the big print doesn't. Read all of it. Carefully. But most importantly, look at the percentage of Water Insoluble Nitrogen.

Water Insoluble Nitrogen (WIN)... the key to superior turf.

The higher the WIN percentage, the longer your turf will remain green. And the less often you will have to fertilize. That's because WIN is the percentage of total Nitrogen that is truly slow release. Freeing small amounts of Nitrogen each time it's touched by water (Par Ex® with IBDU®) or activated by temperature or bacterial action (competitive products).

No competitor can deliver as much usable WIN as Par Ex.

Only Par Ex contains IBDU—a unique Water Insoluble Nitrogen source that is 100% available to your turf in a single growing season. Consider that urea formaldehyde products (bacteria and temperature released) contain about one third of their WIN in the form of plastic polymers. Its long-term Nitrogen

release is so slow, it's almost useless, and will most likely occur during the hottest periods, just when you don't want it.

For Sulfur Coated Urea (SCU), research has shown that by the time it is spread, about 50% is immediately soluble, effectively doubling your cost of controlled-release Nitrogen and cutting the benefit in half!

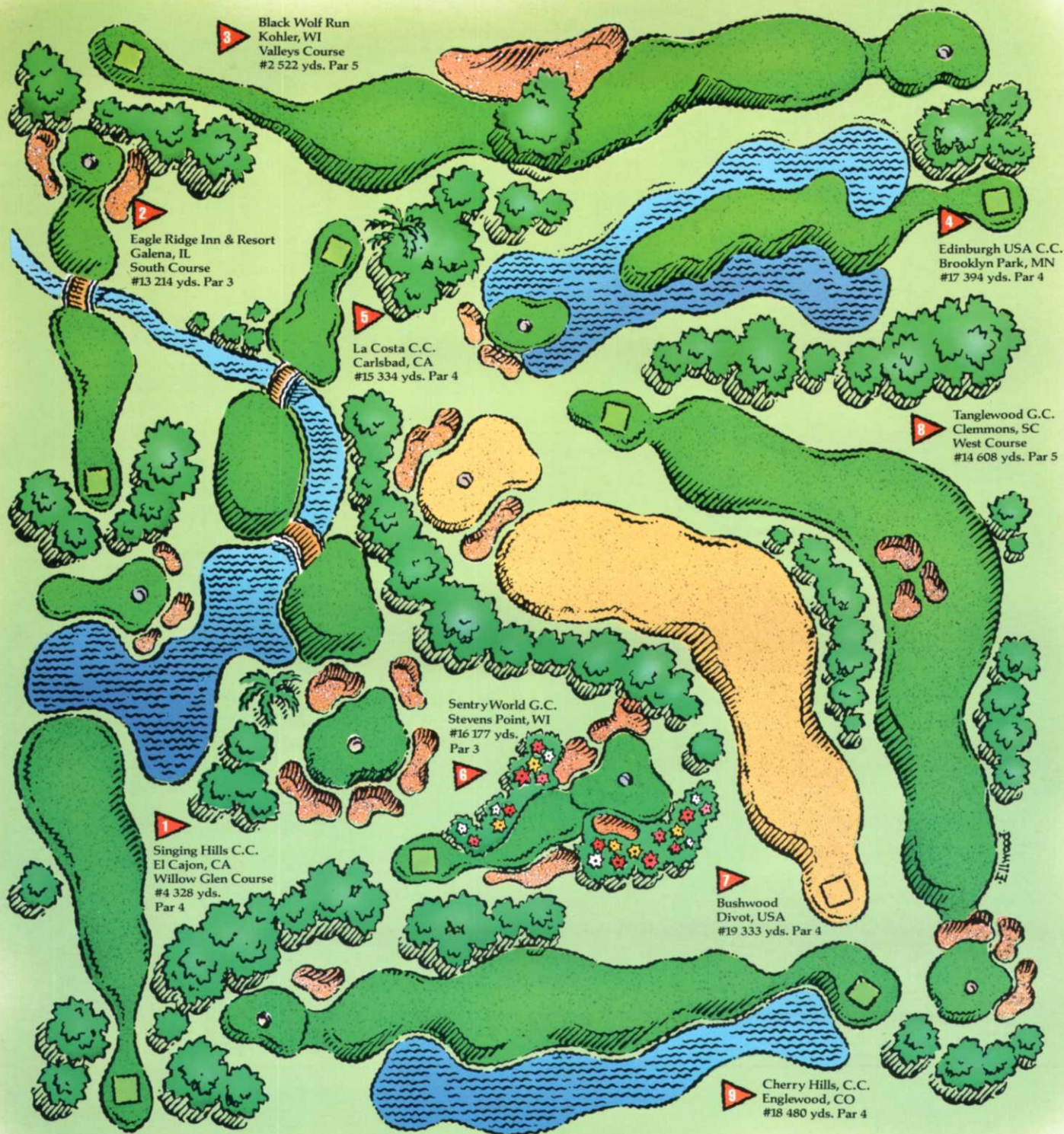
Be sure to read your bag.

If the percentage of Water Insoluble Nitrogen isn't listed, there isn't any slow-release Nitrogen. If it is listed, chances are it won't be as high as the WIN percentage in Par Ex. Even if it is, we guarantee you that 100% of what we list as WIN is available to your turf every growing season. That means for every six months of growing, you'll receive an additional 46-53% more usable WIN than our competitors can deliver.

So start building your WIN percentage today. Talk to your local Par Ex Representative or call 813/294-2567. And get all the WIN you've been reading about.



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Medalist® integrity is performance you can trust — year after year, bag after bag.

Medalist integrity is mixtures and blends that are carefully formulated by Northrup King using some of the industry's newest and most advanced turf varieties.

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Trust Medalist integrity to perform for you. For more information, write or call: Northrup King Co., Medalist Turf Products, P.O. Box 959, Minneapolis, Minnesota, 55440, 800-445-0956.

In your area, call: Mike Massey, Leesburg, Georgia, 912-436-2971

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and
TORO[®]
present...

TORO[®]

REELMASTER[®] 223-D



The lightweight fairway mower with the durability and high capacity you expect. Its superb performance in ground following, grass catching and striping provide superior appearance and playing conditions.

**The New Standard of
Lightweight Fairway Mowers . . .**



The Reelmaster[®] 223-D

The Reelmaster[®] 223-D

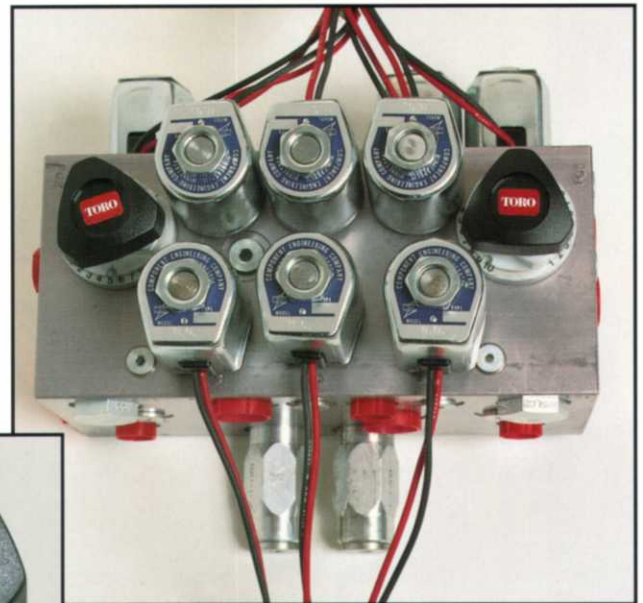
...developed to satisfy the rigid demands of today's superintendents who strive to furnish their customers with aesthetically pleasing and increasingly playable turf. The Reelmaster 223-D is optimally designed to provide unequaled cutting efficiency for enhanced turf quality and increased productivity under many different conditions. Read on to see why the Reelmaster 223-D proves to be a superior performer as it initiates a new standard of expectation in lightweight fairway mowers.

Master your cutting quality with unsurpassed efficiency

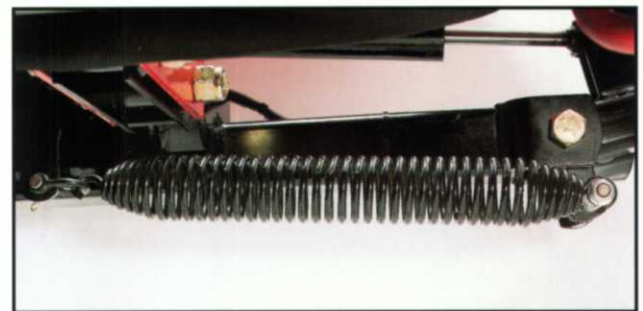
To accommodate varied turf conditions, Toro offers you **Variable Reel Speed Control**. This unique feature allows you to match the reel speed to your desired height of cut *and* mowing speed for optimal cutting efficiency. It's as simple as:

- 1) select your height of cut,
- 2) determine your mowing speed,
- 3) and adjust your reel speed, accordingly.

This will achieve the ideal relationship between reel and ground speeds and maximize your cutting efficiency.



To keep the reels down for better ground contour following, better penetration and thatch control, Toro gives you a geometrically equal cutting unit suspension design. And, a spring loaded, **Positive Down Pressure System**, adjustable at 4 positions in 8 lb. increments, helps to maintain the reels in position over varying contours. This enables you to productively mow at a faster rate, beyond traditional mowing speeds, and maintain a consistent height of cut.



No other mower knows your fairways better



The Reelmaster® 223-D gives you the productivity and consistent quality of cut you've been striving for.

When you combine the ground hugging ability of Toro's cutting units with the better maneuverability of this machine, you can change your mowing direction easier than ever.

Trailing cutting units are free to float in all directions to ensure ground following over undulations and to minimize scalping. In the event of impact, each cutting unit incorporates a breakaway device to help lessen damage.

Easy to handle, high capacity baskets are mounted to the carrier frame, not the cutting units, ensuring cutting unit stability.

Large diameter, narrow width tires provide a properly oriented footprint to minimize scuffing and attain the desired contact area to reduce ground pressure. To adapt to your specific turf

conditions, Toro offers two tread designs; one for applications where turf abrasion is critical and one where traction must be maximized.



Optional aggressive tread tire shown.

Clean, consistent cutting action

Patterned after Toro's proven Greensmaster® cutting units, these reels were redesigned to be more responsive to the specifics of fairway cutting to provide a superior quality of cut.

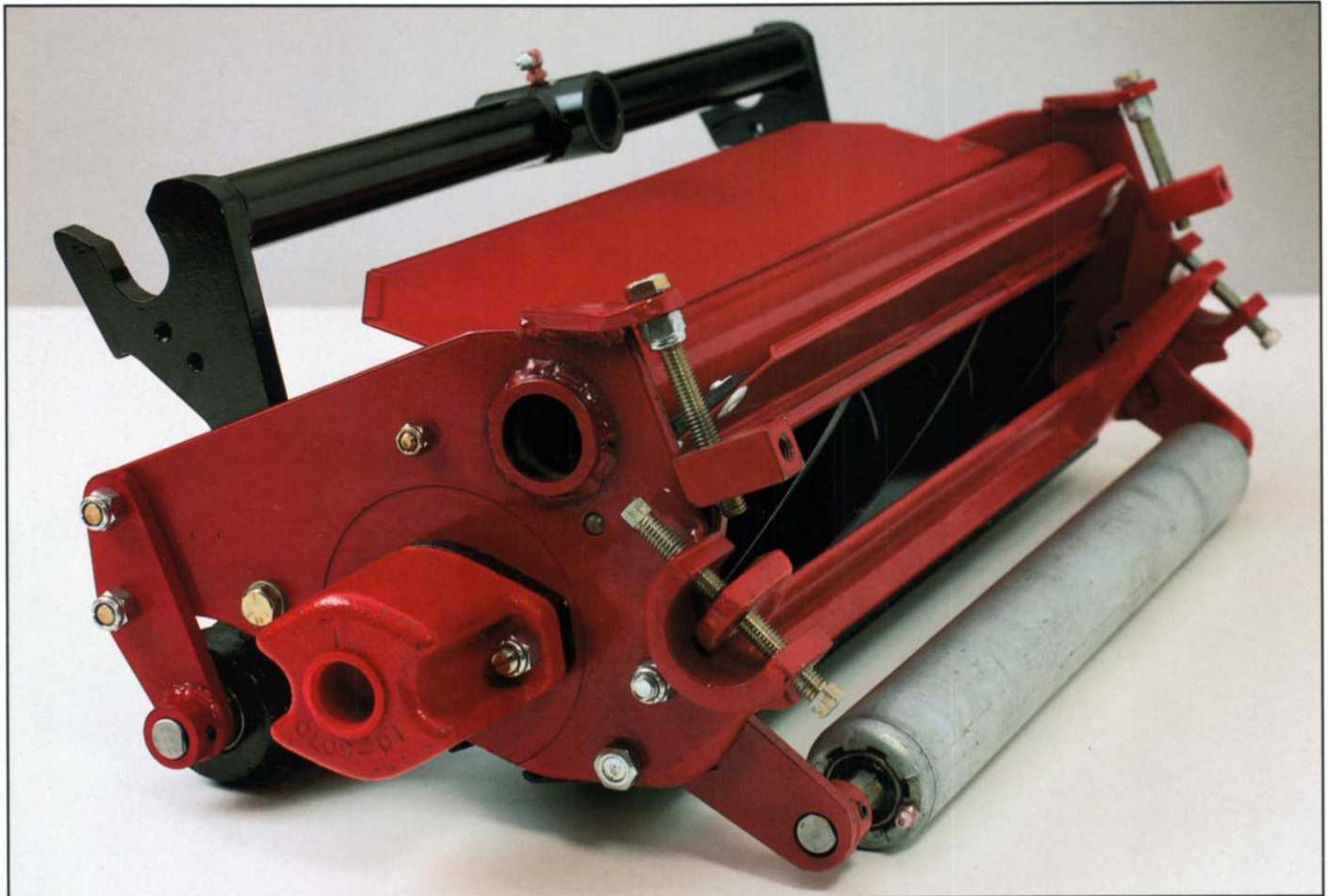
The bedknife, reel blades and front rollers are **heavy duty** to withstand the more rugged terrain.

Choose either 5 or 8 Bladed Floating Cutting Units to meet your desired height of cut range and mowing speed.

Toro recommends the 8 blade reel for heights of cut below $\frac{5}{8}$ " and, the 5 blade reel for heights of cut above $\frac{5}{8}$ ".

Adjustable grass dispersion shields afford you the **flexibility of rear dispersion**.

The Rear Roller Height of Cut Adjustment is engineered to maintain the proper bedknife position for optimum cutting efficiency at $\frac{1}{4}$ " to $\frac{3}{4}$ " heights of cut.



Durably designed to keep you in control

A 23 hp, liquid-cooled diesel engine powers the heavy duty hydrostatic transmission designed for quiet, efficient operations. Coupled with a rugged

mechanical axle this complete drive system delivers full engine horsepower to the drive wheels for exceptional traction.



Effortless and precise control

The Reelmaster 223-D is quiet and easy to operate. A deluxe suspension seat, at-a-glance instrumentation and easy-to-reach fingertip controls provide for an operator-friendly environment. Even the reels are actuated or disengaged through one joystick. An uncluttered floor board promotes the convenience of single pedal hydrostatic drive with a mechanical speed control device to help maintain the desired ground speed consistently. And, Toro gives you independent steering brakes for incredible control and to minimize skidding possibilities. Full power, quad-link steering and clearly visible out front cutting reels allow for fast and accurate maneuvering in all fairway applications.



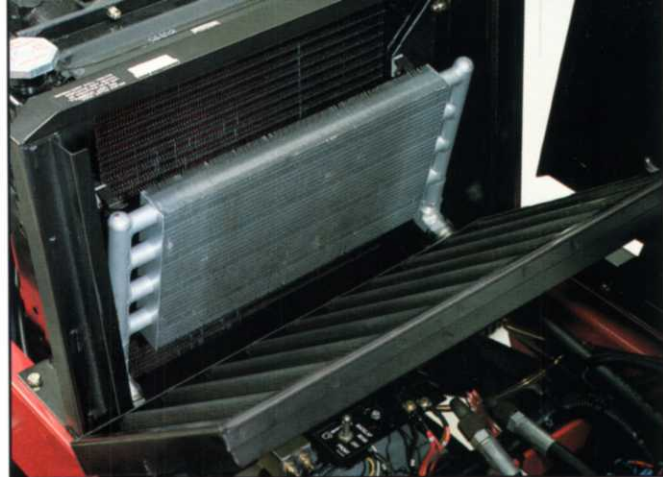
It's as easy to service as it is reliable

The 223-D aims to keep you on the course, not in the shop, with high-tech reliability built-in for more trouble-free operations. One self-contained hydraulic valve block serves to eliminate the need for several individual valves and their plumbing to give you simplified controls and reduce the possibility of leaks.



Outstanding accessibility makes a simpler, easier task of servicing. Routinely maintained items are conveniently located.

Consider the convenience of on-unit backlapping — front 3 at once, rear 2 together — with a pressure compensated system designed to maintain a constant reel speed and eliminate reel stalling.



The midmount radiator with easy-to-remove debris screen and tilt-out hydraulic oil cooler is easy to service and proven reliable.



All cutting units are interchangeable, too. Just loosen two fasteners, and the hydraulic motors are quick to release.

A Tradition of Customer Satisfaction

Toro backs this superior product with **The Toro Promise**: a one year limited warranty wherein The Toro Company promises to repair the Reelmaster 223-D if defective in materials or workmanship.

Always supportive, your **Full Service Toro Distributor** provides you with uncompromising technical and service support as well as stocks a complete inventory of replacement parts. And, when you've got a mower down unexpectedly, **Toro's Direct Today 48 Hour Delivery** program ensures any part not immediately available will be delivered to you within 48 hours. No minimum. No maximum. No extra charge.

Contact your **Toro Distributor** today for details on these and other programs aimed at total customer satisfaction in support of you and your business.

Reelmaster® 223-D Specifications*

| TRACTION UNIT, MODEL 03500 | | | |
|--|---|------------------|---------------------|
| ENGINE | Mitsubishi Model L3E, liquid cooled diesel engine. 23.0 hp @ governed maximum rpm of 3200. 58.1 cu.in. (952 cc) displacement. Heavy duty, 3-phase, remote mounted air cleaner. Electric fuel pump, 12 volt, mounted on frame with replaceable fuel filter. High water temperature shutdown switch. Fuel filter/water separator. | | |
| RADIATOR | Mid-mounted radiator with industrial tube and fin construction; 7 fins per inch. Approx. 6 quart (5.7 liter) capacity. Remote mounted 1 quart (.95 liter) expansion tank. | | |
| ELECTRICAL FEATURES | 12 volt, cold cranking 530 amperes at 0° F (-18° C), 85 minute reserve capacity at 80° F (27° C), maintenance free battery. 40 amp alternator with I.C. regulator/rectifier. Automotive type electrical system. Seat switch, reel and traction interlock switches. | | |
| FUEL CAPACITY | 10 gallons (37.9 liters) diesel fuel. | | |
| CONTROLS | Foot operated traction and brake pedals. Hand operated throttle, speed control lever, parking brake lock, ignition switch with automatic preheat cycle, single joystick control for cutting unit on/off and lift/lower. Cutting unit backlap switch and reel speed controls located under operator seat. | | |
| GAUGES & DIAGNOSTICS | Hour meter, speedometer, fuel gauge, temperature gauge. 4 bank warning lamp cluster: oil pressure, water temperature, amps, and glow plug. | | |
| TRACTION DRIVE | Sundstrand Model M25 hydrostatic transmission mounted on Dana Model GT20 axle 20.9:1 ratio. Foot pedal control of forward/reverse ground speed. 10 micron filter mounted directly on transmission housing. Axle is used as reservoir for hydrostatic transmission, 200 mesh inlet strainer. | | |
| GROUND SPEED | 0-10 mph (0-16.1 km/hr) forward, 0-4 mph (0-6.4 km/hr) reverse. | | |
| TIRES/WHEELS/PRESSURES | Two rear steering tires: 18 x 8.50-8, tubeless, 4-ply rating. Two front traction drive tires: 26 x 12.00-12, tubeless, 4-ply rating. Recommended tire pressure: 10-15 psi (69-103 kPa). | | |
| MAIN FRAME | All welded formed steel. | | |
| BRAKES | Individual 7" x 1.75" (17.8 x 4.4 cm) drum type wheel brakes and parking brakes on front traction wheels. Hydrostatic braking through traction drive. | | |
| STEERING | Power steering with dedicated power source. | | |
| CUTTING UNIT SUSPENSION | Equal length lift arms with free floating, trailing cutting unit attachments with break away protection. Adjustable spring applied down pressure system. | | |
| SEAT | Deluxe high back suspension seat. | | |
| OVERALL DIMENSIONS | Height: 56" (142 cm); Length (w/o grass baskets): 103.5" (263 cm); Length (w/grass baskets): 116" (295 cm); Width—transport: 87" (221 cm); Width—outside of tires: 82" (208 cm). | | |
| WEIGHT | Approx. 2200 lbs. (998 kg) with 8 blade cutting units, baskets and full fluid levels. | | |
| WARRANTY | One year limited warranty. Refer to the appropriate Reelmaster 223-D Operator's Manual for further details. | | |
| SOUND LEVEL | 86 dB(A) under normal operation. | | |
| CERTIFICATION | Certified to meet the American National Standard Institute's (ANSI) specifications B71.4-1984 and applicable Federal and State OSHA regulations based thereon. | | |
| 5 AND 8 CUTTING UNITS, MODELS 03505 AND 03508 | | | |
| TYPE OF CUTTER | Five 21" (53 cm) reels supported by equal length independent lift arms. | | |
| WIDTH OF CUT | 95" (241 cm) | | |
| HEIGHT OF CUT RANGE | ¼"-¾" (6.3 mm-19.1 mm); 5 Blade: ½"-¾" (12.7-19 mm), 8 Blade: ¼"-½" (6.4-15.9 mm) | | |
| HOC & ROLLER ADJUSTMENT | Front Roller: fixed position. Rear Roller: screw adjustable with bolt clamp lock. | | |
| REEL/FRAME CONSTRUCTION | Fairway designed reels with high carbon steel blades. All welded construction. 5" (13 cm) diameter reels. | | |
| REEL DRIVE | Reel motors feature quick disconnect for removal/installation onto cutting unit. | | |
| BEDKNIFE AND BEDBAR | Opposed screw adjustment, replaceable bedknife mounted on a cast iron bedbar. | | |
| CLIP FREQUENCY (ADJUSTABLE) | Model 03505: .62" → 1.17" (15.7 mm → 29.7 mm); 5 blade reel at 5 mph (8.04 km/h). Model 03508: .40" → .73" (10.2 mm → 18.5 mm); 8 blade reel at 5 mph (8.04 km/h). | | |
| ROLLERS | Front cutting unit rollers are 2.5" (6.35 cm) diameter Wiehle rollers. Rear rollers are 2" (5.1 cm) diameter Full rollers; both have regreasable water pump type bearings. | | |
| GRASS BASKETS | Five, easy to remove, high capacity grass baskets. | | |
| ACCESSORIES | | | |
| MODEL NO. | DESCRIPTION | MODEL NO. | DESCRIPTION |
| 03514 | Traction Tires (Aggressive Tread): 26 x 12.00-12 | 03512 | Rear Roller Scraper |
| 30707 | Armrest Kit | | |

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COMMERCIAL PRODUCTS



**THE PROFESSIONALS
THAT KEEP YOU CUTTING.**