

YAMAHA GOLF CARS
VEHICLE GUIDE BOOK





A person wearing a red polo shirt and white pants with a dark stripe down the side is sitting in a golf cart. The cart is on a dirt path or fairway. The background is dark and out of focus, suggesting a golf course setting. The overall lighting is dramatic, with strong highlights on the person's shirt and pants.

**NO GAME TESTS AN INDIVIDUAL
— OR VEHICLE — MORE THAN GOLF.**

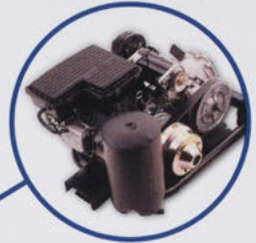
From St. Andrews Links to The Four Seasons Resort Aviara, Doral to Poppy Hills, Yamaha is the golf car of choice for premier courses around the world. Perhaps it's because Yamaha golf cars are built to standards so stringent, they surpass those set by the golf car industry. Or because Yamaha is the only manufacturer that actually makes its own engines. Or maybe because we're the only one with the flexibility of our own in-house leasing company. There are so many reasons why Yamaha golf cars stand out on and off the course. Put one to the test and see for yourself.

ERGO-SHADE SUNTOP

Our exclusive Ergo-Shade sun top with integrated grab handles and universal GPS mount is ergonomically correct and virtually rattle free. Available in tan or ivory.



Soft virgin-foam seat is covered in seamless fabric-backed vinyl. Warp- and moisture-resistant plastic bottom is designed to withstand high-pressure washings. Available in tan or ivory.



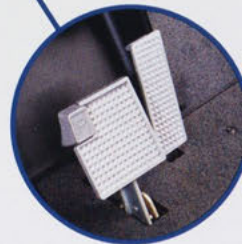
357F

Yamaha purpose-built, low-emission, overhead-valve 357cc engine serves up 11.4 hp of hill-pulling power.



PRECISION SUSPENSION & STEERING

Our exclusive Tru-Trak front suspension and steering system has automotive-style struts and self-adjusting rack-and-pinion steering for a smooth, responsive ride.



Redesigned brake pedal gives the driver better overall brake feel.

G-MAX^{4-STROKE} A LESSON IN PERFORMANCE.

With the biggest engine in its class, the G-MAX 4-Stroke is built to go wherever golf takes it. For those inevitable ups and downs of the typical golf round, we've installed our smooth-riding Tru-Trak front suspension and a mono-link rear suspension with coil springs and hydraulic shocks.

One place it's designed not to go is the repair shop. In fact, our cars have the lowest maintenance task and maintenance cost ratings of any golf car made. It's solid proof that just because our cars are advanced doesn't mean they require a lot of attention.



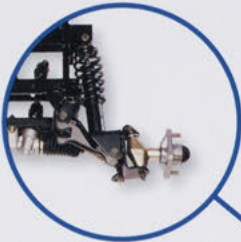


ERGO-SHADE SUNTOP

Our new Ergo-Shade sun top with integrated grab handles and universal GPS mount is designed to accommodate any GPS unit currently on the market. Available in tan or ivory.



Industry-exclusive removable battery tray offers convenient bolt-on, bolt-off construction.



PRECISION SUSPENSION & STEERING

Automotive-style struts linked to a rack-and-pinion steering system provide a virtually adjustment-free lifetime alignment.



In-line battery layout provides easier wiring and maintenance.



GENIUS DIAGNOSTIC SYSTEM

New diagnostic, PDA-based Genius System helps our fleet service technicians better serve our customers.

G-MAX^{48V} A DISPLAY OF PERFECT MECHANICS.

Introducing the next wonder in golf car technology. The G-MAX 48V is without a doubt the best-engineered golf car in its class. In its bag it carries the most powerful and advanced motor controller package in the industry. And thanks to our new playing partner, US Battery, it packs a

top-performing battery – one that's low on gassing and overflow, but high on output capacity and charge hold. The car also sports a state-of-the-art regenerative braking system that feeds energy back into the batteries and moderates the car's speed on downhill inclines.



Our refreshment unit has 7 roomy snack compartments, holds over 23 cases of ice-cold drinks and 2.5 gallons of coffee.



Its versatility allows it to serve a variety of uses on and off the course.



Designed for toughness: with up to an 800 lb. payload capacity and heavy-duty rear suspension. Bring on the work.



U-MAX UTILITY VEHICLE: MORE VERSATILE THAN A 7-IRON.

Just as we designed our fleet cars to play hard, we built our U-Max utility vehicles to work hard. And it's not just a golf car fitted with a bed – we built it from scratch and gave it the powerful 357F overhead-valve engine so it would have the muscle to do a variety of demanding jobs. Whether it's hauling sod or soda, the U-Max can grind

it out. Self-adjusting, individual drum-shoe brakes on all four wheels (MDI and MDII) allow it to stop and work anywhere. It's also equipped with a new heavy-duty rear suspension so it can play caddy with up to 800 pounds of payload. With a work record like this, the U-Max will be a welcome member to any club.



CLUBHOUSE MENU

- Soda: \$3.00
- Water: \$2.00
- Beer: \$4.00
- Hot Dog: \$4.00
- Hamburger: \$4.50
- Grilled Chicken
- Sandwich: \$4.50
- Chips: \$2.00

FLAWLESS COURSE MANAGEMENT.

At Yamaha we understand the changing needs of our golf course customers. They are our best advocates in the industry and we use their recommendations to constantly upgrade our vehicles and programs. After all, when a golf car is

rented and ventures onto the course, that vehicle is the only tangible part of the player's round experienced on every hole. Good impressions are important – lasting impressions are priceless. Let Yamaha make them both for you.



"The biggest reason we use Yamaha is the high quality of their service staff and Yamaha's attention to detail."

- *Joey Garon*
V.P. of Golf Operations for KSL Recreation
Properties include PGA WEST, Doral Resort & Spa, and LaCosta Resort & Spa.

"The most impressive thing about Yamaha Golf Cars is their durability...we have had a 25-year relationship with Yamaha and still have golf cars in operation from that very first day of our partnership."

- *Frank Jemsek*
Owner and President, Cog Hill Golf Club, Summer Grove Golf Club & Pine Meadow.

"The Northern California Golf Association's two golf courses have used Yamaha Golf Cars exclusively since their respective openings – Poppy Hills Golf Course in 1986 and Poppy Ridge Golf Course in 1996. We are more than satisfied with the quality of the cars and the excellent service."

- *Paul Porter*
CEO, Poppy Hills Holding Company



ACCESSORIES

Fundamentally sound.



ERGO-SHADE SUN TOP

The gas-assist injection molded canopy features ergonomically-designed inboard handles, universal GPS mounting points and an information holder attachment flange. Shields occupants from sun, rain.



CLUB & BALL WASHER

Our new washer is mounted with exclusive Yamaha Genuine brackets. It has two separate cleaning chambers with drain plugs and strong bristles that can handle any amount of dirt, sand or grass.



CLUBHOUSE™ COVER

Conveniently mounts to our Ergo-Shade sun top with no drilling or modifications. The cover can be custom embroidered with a course logo and fitted with information pockets. Dutifully protects golfer's most prized possessions.



2-GALLON BEVERAGE COOLER

Our Igloo® brand cooler with Ultratherm® insulation mounts to the car with exclusive Yamaha brackets. An Igloo gasket guards against leakage and a secure basket permits easy removal. Great for desert courses.



HUBCAPS

With their sleek automotive design, our hubcaps are a handsome accessory. Available in a standard brushed-aluminum look or chrome-plated finish. We like to look good while we master the course.



PERSONAL SIZE ICE CHEST

The 6-pack Igloo® chest is mounted with our own Yamaha Genuine accessory mounting bracket which allows for easy removal. The chest also has an attached lid. Great for those stretches between beverage car visits.



SAND BUCKET

Mounted securely with our exclusive Yamaha Genuine accessory bracket. The wire-form basket can also act as a personal storage bin if sand bucket is not mandated. Allows golfers to bring supplies for the long campaign.



FLEET DECALS

Easy-to-read identity numbers set against a gold background. Our fleet decals are made of UV-stabilized polyester with over-laminate to guard against wear and fading.



SAND SHAKER™

Our ergonomically-designed shaker is easy to carry and pour. It has a flip top held by a stainless steel clasp and can be mounted to a variety of places on the car. Cures divots fast.



WINDSHIELD

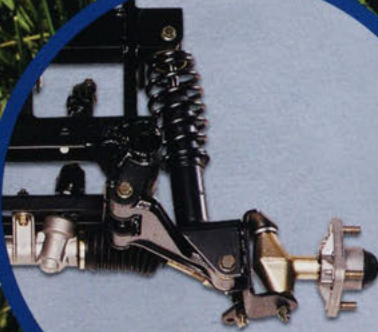
Made of high-impact acrylic plastic. It mounts easily to our Ergo-Shade sun top with virtually squeak-proof clips. Folding windshield features a stainless steel rod and piano hinge for durability. A real gust buster.

PARTS COMPARISON

There's clearly a frontrunner.

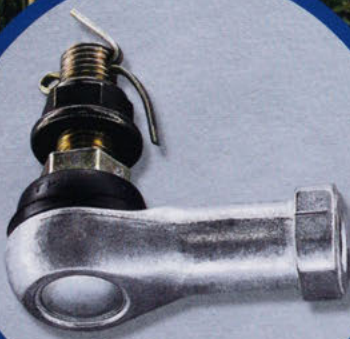
Our golf cars are built to conquer any golf course – and any competitor. Simply put, our parts are better on the scorecard than

E-Z-GO and Club Car's because they last longer and require less maintenance. Somebody's losing money on the links.



FRONT SUSPENSION

Yamaha golf cars have an automotive-style independent front suspension with individual coil springs over hydraulic struts, along with cast aluminum hubs and permanently lubricated bearings – **THEIRS DON'T.**



TIE-ROD ENDS

Yamaha golf cars have sealed automotive-grade tie-rods that never require maintenance – **THEIRS DON'T.** In fact, ours are so durable we use them in some of our ATVs.





LESS MAINTENANCE

Why spend costly time replacing oil filters and greasing chassis? Yamaha engines have a splash-valve system that doesn't require an oil filter and a chassis that's greaseless.



BUMPER SYSTEM

Yamaha golf cars have front and rear 5-mph energy-absorbing bumpers that are the same height to minimize damage to the body and frame in a collision – **THEIRS DON'T.**



BRAKE CABLES

Yamaha golf cars have corrosion-resistant, stainless steel Teflon®-coated brake cables with protective rubber boots at each end to seal out moisture – **THEIRS DON'T.**





G-MAX^{4-STROKE}



G-MAX^{48V}

SPECIFICATIONS

DIMENSIONS

OVERALL LENGTH
OVERALL WIDTH
WHEEL BASE
MINIMUM GROUND CLEARANCE

93.9 in. (2385 mm)
47.2 in. (1200 mm)
64.3 in. (1632 mm)
3.8 in. (97 mm)

93.9 in. (2385 mm)
47.2 in. (1200 mm)
64.3 in. (1632 mm)
3.8 in. (97 mm)

WEIGHT

DRY WEIGHT

670 lbs. (304 kg)

549 lbs. (249 kg) (w/out batteries)

SEATING CAPACITY

2

2

FUEL TANK CAPACITY

6.3 gallons (24.0 liters)

—

PERFORMANCE

MAXIMUM SPEED (Governed)

12-15 mph (19.3-24.1 km/h)
65% reverse speed

12-15 mph (19.3-24.1 km/h)
50% reverse speed

MINIMUM TURNING RADIUS

114.2 in. (2.9 m)

114.2 in. (2.9 m)

TRANSMISSION

TRANSMISSION TYPE

Forward, reverse transaxle equipped with high-precision helical gears, 11.34:1 drive axle ratio.

Direct coupled high-efficiency transmission designed for maximum performance.

TORQUE CONVERTER

Variable transmission, with exclusive Yamaha torque-sensor clutch and overdrive. Primary reduction ratio is continuously variable from 3.10:1-0.80:1, depending on load.

ENGINE (G-MAX 4-Stroke only)

TYPE OF ENGINE
TOTAL DISPLACEMENT
OUTPUT RATING
COOLING SYSTEM
AIR CLEANER
LUBRICATION SYSTEM

Yamaha low-emission, single-cylinder, overhead-valve, four-stroke.
357 cc
11.4 hp @ 3500 rpm
Forced cooling.
Foam urethane pre-filter and automotive-type, high-capacity pleated paper cartridge.
Splash

ELECTRIC MOTOR/SPEED CONTROLLER (G-MAX 48V only)

TYPE OF MOTOR
OUTPUT RATING
SPEED CONTROLLER

48-volt high-efficiency, shunt-wound motor with internal solid-state tachometer.
2.5 kw (3.4 hp) for 30 minutes.
Solid-state micro-processor with high-efficiency MOSFET switching.
270-amp armature output, 20-amp field output.

ADDITIONAL FEATURES FOUND ON BOTH G-MAX MODELS

FRONT SUSPENSION/
STEERING

Yamaha's Tru-Trak precision suspension and steering provides a comfortable, responsive ride via automotive-style front struts linked to a fast-ratio, self-adjusting, greaseless rack-and-pinion steering system. With Tru-Trak, minimal camber and toe changes result in a virtually adjustment-free lifetime alignment.

REAR SUSPENSION

Mono-link rear suspension with coil springs and hydraulic shock absorbers.

BRAKES

Mechanical with self-adjusting, individual drum shoe brakes on rear wheels. New top-left parking brake with automatic release provides the driver with a better overall brake feel.

FRAME

Engineers have minimized welds to provide a seamless tubular-steel frame providing optimum strength and rigidity. Yamaha frames are protected by a three-step anti-corrosive process which includes a full immersion phosphate treatment, electro-deposition epoxy-base coating and an electrostatically applied polyester/urethane powder topcoat.

SEATING

The largest seat in the industry has soft, supple virgin-foam seat cushions wrapped in seamless, durable fabric-backed vinyl and mated to the industry's only warp- and moisture-resistant polypropylene seat bottom. The seat is not only built for comfort, but designed to withstand the abuse of high-pressure washings.

BODY

Custom-formulated, color-matched thermoplastic olefin, painted with a two-part topcoat of high-luster, automotive-grade polyurethane.

BUMPERS

Yamaha's 5-mph energy-absorbing front and rear bumpers are the same height to minimize damage to the body and the frame during a collision.



We offer a 5-year limited warranty with every G-Max golf car we sell – the longest in the golf car industry. It's remarkable, even our ink and paper outperforms the competition.



U-MAX MEDIUM DUTY I
(available in gas and electric)



U-MAX LIGHT DUTY
(available in gas and electric)



U-MAX MEDIUM DUTY II

SPECIFICATIONS

DIMENSIONS/OTHER

OVERALL LENGTH
OVERALL WIDTH
OVERALL HEIGHT
WHEEL BASE
MINIMUM GROUND CLEARANCE
FUEL TANK CAPACITY
CARGO BED

CARGO BED PAYLOAD CAPACITY
CARGO BED SIZE (LxWxH)

CARGO BED LOAD HEIGHT
DRY WEIGHT (LESS BATTERIES)

MAXIMUM SPEED (Governed)
MINIMUM TURNING RADIUS
FRONT TIRES
REAR TIRES

114.8 in. (2915 mm)
48.9 in. (1243 mm)
47.2 in. (1200 mm)
74.8 in. (1900 mm)
GAS 4.5 in. (115 mm) ELEC. 3.7 in. (96 mm)
6.3 gallons (24.0 liters) gas only
Roto-molded bed w/ hydraulic-assisted tilt and fold & lock tailgate
800 lbs. (363 kg)
48.7 in. (1238 mm) x 48.8 in. (1240 mm) x 14.3 in. (362 mm)
27.2 in. (690 mm)
GAS 851 lbs. (386 kg)
ELEC. 707 lbs. (315 kg)
15 mph (24 km/h)
129.9 in. (3.3 m)
18 X 8.5 - 8 (4 PLY)
18 X 8.5 - 8 (6 PLY)

98.1 in. (2492 mm)
48.5 in. (1232 mm)
50.2 in. (1275 mm)
64.4 in. (1637 mm)
4.6 in. (116 mm)
6.3 gallons (24.0 liters) gas only
Roto-molded bed

250 lbs. (113 kg)
29.4 in. (747 mm) x 45.9 in. (1167 mm) x 12.8 in. (324 mm)
—
GAS 725 lbs. (329 kg)
ELEC. 614 lbs. (273 kg)
15 mph (24 km/h)
118.1 in. (3.0 m)
20 X 10 - 8 (4 PLY)
20 X 10 - 8 (4 PLY)

118.5 in. (3011 mm)
50.7 in. (1289 mm)
53.3 in. (1353 mm)
76.3 in. (1939 mm)
5.6 in. (143 mm)
7.9 gallons (30.0 liters)
Roto-molded bed w/ hydraulic-assisted tilt and fold & lock tailgate
500 lbs. (227 kg)
48.7 in. (1238 mm) x 48.8 in. (1240 mm) x 14.3 in. (362 mm)
34.0 in. (864 mm)
974 lbs. (442 kg)

15 mph (24 km/h)
169.3 in. (4.3 m)
22 X 12 - 10 (6 PLY)
22 X 12 - 10 (6 PLY)

POWER TRAIN (FOR GAS MODEL MEDIUM DUTY I, LIGHT DUTY & MEDIUM DUTY II)

TYPE OF ENGINE Yamaha purpose built, single cylinder 60° incline OHV.
TOTAL DISPLACEMENT 357 cc
MAXIMUM HORSEPOWER 11.4 hp (8.5 kw @ 3500 rpm)
CARBURETOR MIKUNI BV26-18
AIR CLEANER High-capacity pleated paper with foam urethane pre-cleaner.
IGNITION Maintenance-free, transistor-magneto ignition.
ELECTRICAL SYSTEM 12 volt, 450 cca @ 0°F (-18°C), 75 min. reserve capacity.
TRANSMISSION Continuously variable, forward/reverse V-belt automatic transaxle.

POWER TRAIN (FOR ELECTRIC MODEL MEDIUM DUTY I & LIGHT DUTY VEHICLES)

TYPE OF MOTOR 48-volt high-efficiency, shunt-wound motor with internal solid-state tachometer.
OUTPUT RATING 2.5 kw (3.4 hp) for 30 minutes (LD). 2.8 kw (3.8 hp) for 30 minutes (MDI).
SPEED CONTROLLER 48V DC Microprocessor-controlled MOSFET switching. 270-amp armature, 20-amp field (LD). 400-amp armature, 30-amp field (MDI).
TRANSMISSION Direct coupled, high-efficiency forward/reverse transaxle equipped with high-precision helical gears.

ADDITIONAL FEATURES FOUND ON ALL U-MAX MODELS

BRAKES Self-adjusting, mechanical drum four wheel brakes on MDI and MDII models. LD has 2 wheel brakes on rear wheels.
FRAME Precision robotic welded, tubular steel protected by an 18-step paint process.
FRONT BODY Custom-formulated, color-matched thermoplastic olefin, painted with a two-part topcoat of high-luster, automotive-grade polyurethane.
REAR BODY Vacuum-formed ABS plastic coated with tough UV resistant Solarkote.
LIGHTING Standard taillights and dual 30W Krypton multi-reflector headlights.
TRAILER HITCH 2 in. receiver standard and accommodates a 1-7/8 in. and 2 in. ball.
BUMPER Yamaha's 5-mph energy-absorbing front bumper on MDI and seamless tubular steel bumper on LD and MDII.
REAR SUSPENSION Mono-link rear suspension with coil springs and hydraulic shock absorbers.
WARRANTY 1 year limited.

ADDITIONAL FEATURES FOR MEDIUM DUTY I (gas and electric) AND MEDIUM DUTY II (gas)

STEERING TYPE Adjustable worm gear and pitman pin system, permanently lubricated.
FRONT SUSPENSION Independent suspension with individual coil springs and hydraulic shock absorbers.

ADDITIONAL FEATURES FOR LIGHT DUTY (gas and electric)

STEERING TYPE Self-adjusting rack & pinion system.
FRONT SUSPENSION Tru-Trak independent strut suspension, coil spring with shock absorber.

COLORS FOR G-MAX



Ivory



Burgundy



Hunter Green



Candy Apple Red Metallic



Ultra Blue Metallic

COLOR FOR U-MAX



Hunter Green



**YAMAHA MOTOR GROUP:
GREAT ALL-AROUND GAME.**

We didn't go out one day and just start building golf cars.

No, like anyone picking up the game of golf, we took a few lessons first – from our own brain trust. And those lessons have paid off. Yamaha golf cars can endure extreme use because they're full of the things we learned making ATVs, watercraft, outboard motors and motorcycles.

And even though we don't expect our golf cars to turn 15,500 RPM like our R6 sport bike, we didn't dismiss our exacting standards with regard to high performance.

Simply put, at Yamaha we make the most innovative and durable golf cars in the world. But don't take our word for it. See for yourself.



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