

Irrigation Products International Pvt Ltd

Special Issue - Yamaha Battery Operated Vehicles

Volume - 4



Newsletter



Message from Managing Director



today. YDRE is loaded with host of features unmatched by any electric car which makes it the best investment value.

Our professional and comprehensive sales support has enabled us to enjoy a strong and loyal customer base represented by some of the leading Golf Courses and commercial institutions in the country.

*Regards
Ravi Garyali*

Managing Director

Dear friends,

We take the opportunity to introduce ourselves as the distributor in India for Yamaha Battery Operated Vehicle.

*No name in battery operated vehicle has longer, more illustrious history of technological prowess than **Yamaha**. Yamaha has recently launched the new model YDRE (**Drive**) which is considered to be the best selling car in the industry*



Profile of Yamaha

Yamaha is one of the largest producers of the motor sports products in the world. Its product lines include the boats, unmanned helicopters and industrial robots, apart from the motor cycles. Yamaha is the best at everything it does – be it designing or making products. It provides excellent service to the customers who buy Yamaha products. That is why Yamaha products are recognized the world over for superior quality in design, technology, craftsmanship and customer oriented services.

Since 1979 Yamaha has taken the Golf car market by storm. The company has worked hard towards a common goal of building the most dependable, highest quality golf cars and the utility vehicles in the industry.

Ipi is the sole distributor of Yamaha Battery Operated Cars in India.

Available models :



Two Seater

It is most apt for the golf courses. It is useful for single player and two players.

2 Seater



4 Seater (2 Forward & 2 Rear) 4 Seaters (All Forward)



6 Seater (All forward) 6 Seater (4 Forward & 2 Rear)

Four Seaters & Six Seaters

These can be utilized in Hotels & Resorts to take guests around and in Hospitals to take patients from one wing to other wing. These are also used in Industries by security staff, for inspecting the facility and for taking around the VIPs and clients.

Food & Beverage

This specially equipped vehicle is used for carrying the refreshments and food to the golf courses, resort and sports grounds. It ensures that players and guests need not take long eating breaks.



Utility Vehicle with Cargo Box

These are used in Golf courses, sports Grounds, Hospitals & Industries for Carrying light weight maintenance tools and in hotels and resorts for carrying luggage's of the guests.



Available Colors





Why Yamaha Battery Operated Vehicle is better than others:

No name in battery operated vehicle has longer, more illustrious history of technological prowess than Yamaha. Yamaha has recently launched the new model YDRE (Drive) which is considered to be the bestselling car in the industry today. YDRE is loaded with host of features unmatched by any electric car which makes it the best investment value.

Accessories and their uses

- Light kit
- Rain Proof Cover
- Trunk Cooler
- Sand Bottle Kit

Best Eco- Friendly cars

- Noiseless
- Pollution less
- Fuel free

Safest Cars

Yamaha cars are the safest cars in the world and the only electronic cart which follows the safety standards of the ANSI (American national Safety Institute)

**Most Powerful Electronic Car
Comfort Seat and Large Armrest
Durability**

Maintenance Free
Our professional and comprehensive sales support has enabled us to enjoy a strong and loyal customer base represented by some of the leading Golf Courses, commercial institutions, industries and spiritual centers in the country.

Applications :

This car can be used for multiple applications including:

Moving guests, dignitaries around the facilities by maintenance and security officials

Carrying light cargo.
Runs on Battery

Environmental free no air and noise pollution.

Low Operated cost

VIP's enjoying Yamaha cars



Sardar Surjeet Singh Barnal enjoying a ride in Yamaha battery operated car inside Rajbhavan Chennai.



Cricketer Mahinder Singh Dhoni riding a Yamaha car at the cricket Ground in Jaipur



Mr Farook Abdullah former Chief Minister of Jammu and Kashmir on his golf car



Visit of Mr Iwaki Takeshi - November 2008 It was a privilege to receive

Mr. Iwaki Takashi, senior executive from Yamaha motor company at IPI. Mr. Tekashi visited India in November 2008. The purpose of his visit was to share the recent marketing strategies and also train the IPI personnel in the latest marketing techniques for selling Yamaha products



Visit of Yuki Takahashi September 2009

IPI was honored with the visit of Me Yuki Takahashi

in September 2009. Mr. Yuki is In charge of sales for Asia for Yamaha. He went to Delhi, Bangalore, Jaipur, Chennai and Bombay. In order to inspire confidence among the clients he met the existing as well as the Prospective clients of Yamaha cars and obtained feed-back from them to provide better after sales service.



YAMAHA GOLF CAR : CARE AND MAINTENANCE AND SERVICE TIPS

The Operating performance and Service life of any equipment depends on the level of operating and maintenance practices. Here are some of the service tips that can be followed to get the optimum performance of your golf car.

DO's and DON'Ts

Never Press the Accelerator Pedal without switching ON the Main Switch as this will lock out Motor Control Unit and the car will not operate thereafter unless the Motor Control Unit is Reset.

Don't Operate the Car if the Electrolyte Level (Distilled Water level is below the recommended level). Operating the Car without adequate electrolyte in the battery cell will shorten the life of the batteries. Add Distilled water until the electrolyte level is 1/8" (3.17 mm) below the bottom of the fill well.

Never use common tap water . Add only Distilled water.

Battery Electrolyte contains Sulfuric Acid and is Poisonous. Avoid bodily contact with electrolyte as it can cause severe burns or permanent eye injury. Always follow safety precautions while handling batteries and electrolyte.

Never Operate the Car with Under Inflated Tires . Operating the Car with under inflated tires will lead to excess power consumption, Premature wear out tires on outer edges. Tire Pressure should always be maintained at 20 PSI on all four tires.

Don't use high pressure washers to wash the car. Using High Pressure washers may damage the finish on the body and electrical connectors.

Don't Operate the Car with Loose and Corroded Battery Terminals. These are potential hazard for battery explosion / melt up.

Always Disconnect the Negative Cable FIRST from the batteries and install it at LAST.

Always use insulated tools and wrenches for battery cable nuts to prevent accidental short circuits.

BATTERY : Battery is the power source for Electric Golf Cars. The key factor for achieving optimum performance and long battery life is a solid care and maintenance programme. Please note all battery systems are unique. Battery type, Charger technology, Equipment loads, Cable Size, Climate and other factors can all vary. Strict adherence to the care and maintenance information will ensure long life from your batteries.

When idle, wet lead acid batteries self – discharge at a rate that varies directly with temperature and conditions of service. . When Temperature is 18.3deg C (65 deg F) or below expect less operation range and limit operation accordingly

New batteries are not capable of the full operating capacity until they have been cycled-in. Therefore, battery use should be limited to 18 holes during the first 10 charging cycles, of at least Six hours. Limit use to 27 holes for two charging cycles and 36 holes thereafter. Give new batteries an extra charge once a week.

During the first 4 months of use, give new batteries an extra six hours of boost charge once a week, ideally during the warmest part of the day.

Charge the batteries immediately after use while the electrolyte temperature is high from use.

Excessive discharge can cause polarity reversal of individual cells. This results in their complete failure shortly thereafter.

Verify the state of charger before put into use. A green LED in the charger indicates a completed charging cycle.

BATTERY INSPECTION :

Examine the exterior of the battery containers for cracks or leaks.

The top of the battery, posts, and connections should be clean, free of dirt, fluids, and corrosion. Any Fluid on or around the battery may be an indication that electrolyte is spilling, leaching or leaking. Leaking batteries must be repaired or replaced.

Inspect battery cables and wire lead for corrosion. Battery cables should be intact. Broken or frayed cables can be extremely hazardous.

Tighten all battery clamps to 80 Ft.Lbs. Check the battery hold down plates to ensure the batteries are properly secured

BATTERY CLEANLINESS

Batteries need to be cleaned approximately once a month. But they will require more frequent cleaning if they are being used in hot weather or are over-filled or over charged. Regular Charging is key in maintaining longer battery life. Lack of cleaning can cause the following problems.

- Reduced reliability and performance
- Corrosion
- Shortened battery life
- Increased maintenance costs.

Clean the battery tops, sides, hold-down plates and surrounding area with a solution of 100 : 1 mixture of Water and Baking Soda. Ensure that all vent caps are securely in place. Coat the Battery Terminals with Terminal Protectants / Petroleum Jelly. Keep the Battery Terminals Tight – Tightening Torque 80 Ft.Lbs.

BATTERY ELECTROLYTE LEVEL :

Checking and maintaining the electrolyte levels in your batteries can save Thousands of Rupees by preventing early battery failure due to cell dilution and imbalance.



The batteries that are used on golf cars are Deep Cycle wet batteries. Wet batteries require watering. More importantly watering must be done at the right time, and in the right amount or else the battery's performance and longevity suffers. Although adding water to battery cells is time consuming, IT IS A NECESSITY.

Electrolyte levels drop during discharge and rise during charging. Therefore it is mandatory that electrolyte levels be checked and adjusted after the batteries are fully charged.

Adding water correctly helps maintain the specific gravity level balance among the battery cells. When batteries are new, they will require water approximately every four weeks. As they get older, they will need more frequently. Near the end of their lives, batteries may require water once or twice a week.

BATTERY WATERING : IMPORTANT THINGS TO REMEMBER.

Don't allow the battery plates to become exposed to air. This will damage (sulfate – white deposits) the battery posts.

Don't fill the water level to the cap. This will cause the battery to overflow acid, consequently losing capacity and causing corrosive mess.

Water should always be added after fully charging the battery. Prior to charging, there should be enough water to cover the battery cell plates. Keeping the water at the correct level after a full charge will prevent having to worry about the water level at a different state of charge.

WATERING PROCEDURE

Check the Battery Electrolyte Level once a week and top the cells with Distilled water.

Never fill the battery before charging unless the plates are dry. Check the specific gravity of the battery with a hydrometer before adding water unless plates are dry.

Add only distilled water when the cells get low. Never use common tap water, " reclaimed " water or electrolyte.

The minimum level before charging is at the top of the plates. If necessary add just enough water to cover the plates at this time. . As the battery charges, the electrolyte level will rise.

Put batteries on complete charge before adding any additional water . Once charging is completed, add distilled water until the electrolyte level is 3.17mm (1/8") below the bottom of the fill well. A piece of rubber can be used safely as dipstick to help determine this level.

Never over fill the batteries to reduce the number of times the batteries must be watered. Over filling the batteries will result in the battery gassing through vent caps. This causes self – discharge of the battery and corrosion problem.

In hot weather batteries will need to be watered more often.

Note any large difference in the amount of water needed from cell to cell. Since all battery cells should gas about the same amount, large differences may indicate a defective cell.

ELECTRICAL & BATTERY CHARGING :

Check all wiring harness once a month for damaged, loose or broken connectors

Check the charger receptacle and battery charger contacts for damage or corrosion. Clean, repair or replace any damaged / corroded parts.

The AC Line connected to the charger must be capable of supplying 15 amperes to the charger.

The battery charger must be grounded to reduce the risk of electric shock and damage to the charger. The charger is equipped with an AC cord set having an equipment grounding conductor. The AC cord set must be connected to an appropriate receptacle that is properly installed and grounded with a 3 wire outlet.



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