



MODEL YEAR **2022**

OWNER'S / OPERATOR'S MANUAL



UTILITY VEHICLE

⚠ Read this manual carefully before operating this vehicle.

UMAX



UMAX RALLY

YUM1A UMAX RALLY
YUM2A UMAX RALLY



WARNING: Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle

INTRODUCTION

Congratulations on your purchase of a Yamaha utility vehicle. This manual contains information you will need for proper operation, maintenance, and care of your utility vehicle. A thorough understanding of these simple instructions will help you to obtain maximum enjoyment from your new Yamaha.

If you have any questions about the operation or maintenance of your utility vehicle, please consult a Yamaha dealer.

Yamaha Golf-Car Company

**YUM1A UMAX RALLY /
YUM2A UMAX RALLY
OWNER'S / OPERATOR'S MANUAL
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IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished in this manual by the following notations:

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
 WARNING	A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 NOTICE	A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.
TIP	A TIP provides key information to make procedures easier or clearer.

TIP

Yamaha continually seeks advancements in product design and quality; therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your utility vehicle and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

WARNING

Read and understand this manual completely before operating your utility vehicle. This manual should be considered a permanent part of your utility vehicle and should remain with the vehicle when resold.

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WARRANTY

2-YEAR LIMITED WARRANTY FOR TRANSPORTATION AND UTILITY VEHICLES

Yamaha Golf-Car Company hereby warrants that any new Yamaha utility vehicle or any multi passenger cars or specialty vehicles purchased from Yamaha, or an Authorized Dealer or Distributor in the United States will be free from defects in material and workmanship for TWO years from date of purchase, subject to the stated limitations. DURING THE PERIOD OF WARRANTY, any authorized Yamaha golf car service technician, dealer, or distributor will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the vehicle's warranty period. All parts replaced under warranty become property of Yamaha Golf-Car Company.

Car Components	Warranty Period	Electric Car Specific Parts	Warranty Period
Brake System (Excluding Shoes / Drums)	2 Years	Battery - Trojan T105 FLA	4 Years or 20,000 amp hours whichever comes first / without HydroLink Watering System 4 Years or 21,500 amp hours whichever comes first / with HydroLink Watering System <i>*See Trojan Warranty Statement for details</i>
Body Parts	2 Years		
Bumpers / Rear Floor Cover (Bag Well)	2 Years		
Electrical Wires, Switches, and Relays	2 Years	Battery - Trojan T875 AGM	5 Years or 50,000 amp hours whichever comes first <i>*See Trojan Warranty Statement for details</i>
Frame Assy	2 Years		
Floor Mats	2 Years	Battery Charger and DC Cord	2 Years
Pedal Assy	2 Years	Electric Motor and MCU	2 Years
Scorecard Holder	2 Years	Charger Receptacle	2 Years
Seats	2 Years	Throttle Sensor Assy	2 Years
Steering / Suspension Components	2 Years	Gas Car Specific Parts	
Transaxle / Transmission	2 Years	Clutch (Excluding Drive Belt)	2 Years
Common Accessories	Warranty Period	Intake and/or Exhaust System	2 Years
		Gas Engine	2 Years
Windshield	3 years	Starter Generator	2 Years
Sun Top	2 Years	Starting Battery	1 Year
Tail Light	2 Years	Throttle / Control Cables	2 Years
		All Remaining Parts	1 Year

EXCLUSIONS from this Warranty shall include any failures caused by:

- Abnormal strain, neglect, or abuse, including lack of proper maintenance, and use contrary to the Owner's/Operator's Manual instructions.
- Accident or collision damage.
- Installation of parts or accessories that are not original equipment.
- Fading, rust, or deterioration due to exposure or ordinary wear and tear.
- Modifications or alterations that affect the car's condition, operation, performance, or durability.
- Damage due to improper transportation.
- Acts of God, e.g. lightning, hail damage, flooding, fire, etc.

This Limited Warranty does not cover any parts replaced due to normal wear or routine maintenance, including oil and air filter elements, brake shoes, tire wear, spark plugs, starter and clutch drive belts. Any charges incurred in transporting a golf car or charger to and from an authorized Yamaha golf car dealer for service or in performing field service are also excluded from this warranty. Gasoline-powered golf car starting batteries on vehicles equipped with a golf course GPS device, or any other device with a parasitic current draw, unless the vehicle is equipped from the factory with an optional deep cycle starting battery, are also excluded from this warranty.

The Customer's Responsibility under this warranty shall be to:

- Operate and Maintain the golf car, personal transportation vehicle (PTV), or commercial (Utility) vehicle as specified in the appropriate Owner's/Operator's manual, and
- Give notice to an authorized Yamaha Golf car dealer/distributor of all apparent defects within ten (10) days of discovery, and make the car available at that time for inspection and repairs at the dealer's/distributor's place of business, and
- Transporting the car to and from an authorized dealer or distributor for warranty service.

WARRANTY TRANSFER: This warranty is to the original purchaser and is not transferable.

EMISSION CONTROL SYSTEM WARRANTY:

Yamaha Golf-Car Company also warrants to the ultimate purchaser of each gas-powered golf car covered by this warranty that the product is designed, built, and equipped so as to conform at the time of sale with all U.S. emission standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the same time period described in THE PERIOD OF WARRANTY above, or a minimum of two years, whichever is longer. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.

Yamaha Golf-Car Company makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and fitness of merchantability and fitness for a particular purpose which exceed the obligations and time limits stated in this warranty are hereby disclaimed by Yamaha Golf-Car Company and excluded from this Warranty.

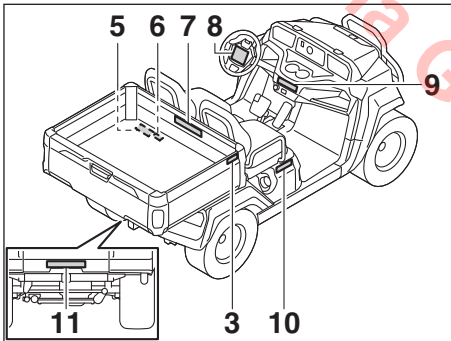
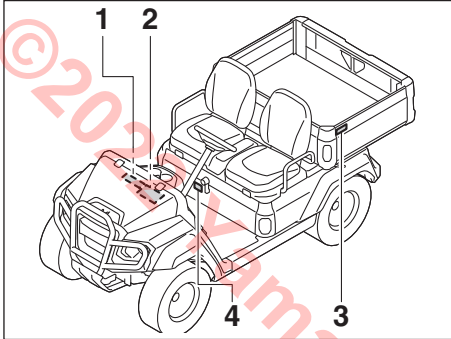
Some states do not allow limitations on how long implied warranty lasts, so the above limitation may not apply to you. Also excluded from this Warranty is any incidental or consequential damages including loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This Warranty give you specific legal rights, and you may also have other rights, which vary from state to state.

IMPORTANT LABELS



SAFETY AND INSTRUCTION LABELS

Read the following labels carefully before operating your utility vehicle. If any of these labels are damaged or missing, contact a Yamaha dealer for replacements.



2

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EMISSION CONTROL INFORMATION

YAMAHA MOTOR CO.,LTD.

THIS ENGINE CONFORMS TO *** CALIFORNIA EV/EXH EMISSION REGULATIONS AND THIS ENGINE MEETS U.S. EPA EXH/EVAP REGS FOR ***.

EF:*****

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

MAINTENANCE SPECIFICATIONS

NO OTHER ADJUSTMENTS NEEDED



DISPLACEMENT: *** cc

EMISSION CONTROL SYSTEM: ***

EVAPORATIVE CODE CARB: *****

EVAPORATIVE CODE EPA: *****

ENGINE OIL: SAE 10W-30

SPARK PLUG GAP: .028-.031 in

The air index of this engine is 3

0	2	4	6	8	10				

Least Clean

Note: The lower the Air Index, the less Pollution

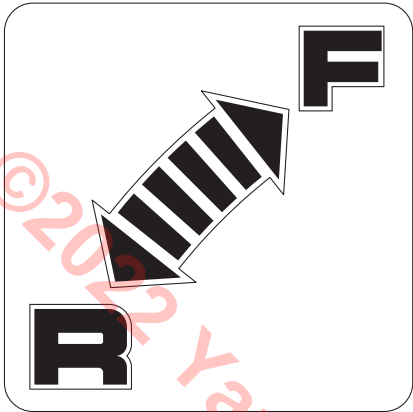
This engine is certified to be emissions compliant for the following use:

☐ Moderate (250hours)
 ☐ Intermediate (500hours)
 ☐ Extended (1000hours)

Check owner's manual for further details.
 ***-F179T-**

3

4



5

YEAR OF CONSTRUCTION: **** MY****
YAMAHA MOTOR POWERED PRODUCTS CO., LTD
200-1 SAKAGAWA, KAKEGAWA, JAPAN
MODEL: *****
GROSS POWER: ***** hp/***** kW LOAD CAP.: *** kg (*** lb)
BATTERY WEIGHT MAX.: ** kg VEHICLE WEIGHT: ***** kg (***** lb)
NOMINAL BATTERY VOLTAGE: **V G.V.W.R.: ***** kg (***** lb)
This vehicle complies to SAE-J-2258 2016 ***-F4236-**

6

CAN ICES-2 / NMB-2
***-H2377-**

2

IMPORTANT LABELS

7 YUM1A UMAX RALLY

⚠ WARNING

Improper use of cargo bed can result in SEVERE injury or DEATH from loss of control, overturn or other accidents.

- Do not carry passengers in cargo bed.
- Maximum load in cargo bed: 300 lbs (136 kg).
- When loaded with cargo or towing a trailer:
 - Reduce speed and allow more room to stop.
 - Turn gradually and go slowly.
 - Avoid hills and rough terrain.

- Load may affect handling and stability:
 - Secure cargo so that it will not shift - a loose load could change handling unexpectedly or be thrown forward and strike occupants.
 - Keep weight in the cargo bed centered side to side, and as low and as far forward as possible. Top-heavy loads increase the risk of overturn.
- Read Owner's/Operator's Manual before loading or towing.

Static electricity sparks can ignite fuel vapor causing FIRE or EXPLOSION.

- Do not fill portable fuel container (gas can) in cargo bed.
- Set fuel container on the ground and touch fuel nozzle to the unopened container before removing cap.
- Keep the fuel nozzle in contact with the container while fueling.
- Tighten cap before putting fuel container in cargo bed.

YAMAHA

***-K7768-**

7 YUM2A UMAX RALLY

⚠ WARNING

Improper use of cargo bed can result in SEVERE injury or DEATH from loss of control, overturn or other accidents.

- Do not carry passengers in cargo bed.
- Maximum load in cargo bed: 800 lb (363 kg).
- When loaded with cargo or towing a trailer:
 - Reduce speed and allow more room to stop.
 - Turn gradually and go slowly.
 - Avoid hills and rough terrain.

- Load may affect handling and stability:
 - Secure cargo so that it will not shift - a loose load could change handling unexpectedly or be thrown forward and strike occupants.
 - Keep weight in the cargo bed centered side to side, and as low and as far forward as possible. Top-heavy loads increase the risk of overturn.
- Read Owner's/Operator's Manual before loading or towing.

Static electricity sparks can ignite fuel vapor causing FIRE or EXPLOSION.

- Do not fill portable fuel container (gas can) in cargo bed.
- Set fuel container on the ground and touch fuel nozzle to the unopened container before removing cap.
- Keep the fuel nozzle in contact with the container while fueling.
- Tighten cap before putting fuel container in cargo bed.

YAMAHA

***-K7768-**

8

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- This vehicle is recommended only for operators 16 and older with valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
- Never travel at speeds too fast for the terrain, visibility conditions, or your experience.
- Drive with extra caution in congested areas, when operating in reverse, and when driving on wet, rough, or loose surfaces.
- This vehicle may go faster than intended speed for golf course pathways. Do not use on such pathways without specific permission from golf course management.

OPERATING INSTRUCTIONS

- Read the warning label on the beverage holder panel before operating.
- Be sure occupants are seated.
- Select "FORWARD" OR "REVERSE" then turn main switch to "ON".
- Press the accelerator pedal to start moving. The motor will start and the parking brake will release automatically.
- To stop, release the accelerator pedal and press the brake pedal. Press the parking brake until it locks, and turn the main switch to "OFF" before leaving the vehicle.
- Come to a complete stop before reversing direction.
- Read the Owner's/Operator's Manual for more information.

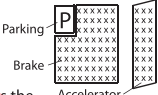
ATTENTION

- This vehicle was not manufactured for use on public streets and does not comply with federal motor vehicle safety standards applicable to passenger cars.

Parking

Brake

Accelerator



YAMAHA

***-K7762-**

9 YUM1A UMAX RALLY

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- Vehicle capacity: 1 occupant per seat.
- Operate only when authorized and only in designated areas.
- Operate from driver's seat only.
- Do not start vehicle until all occupants are seated.
- Remain seated and hold on while in motion.
- Keep entire body inside vehicle.

- Vehicle rated capacity (driver, passenger, cargo, trailer, and load) 800 lbs (362.9 kg) on level surface.
- Do not operate or ride the vehicle while distracted or under the influence of alcohol or drugs.
- Locate and read Owner's Manual. Follow all instructions and warnings.



YAMAHA

***-K7768-**

IMPORTANT LABELS

9 YUM2A UMAX RALLY

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- Vehicle capacity: 1 occupant per seat.
- Operate only when authorized and only in designated areas.
- Operate from driver's seat only.
- Do not start vehicle until all occupants are seated.
- Remain seated and hold on while in motion.
- Keep entire body inside vehicle.

- Vehicle rated capacity (driver, passenger, cargo, trailer, and load) 1500 lbs (680.3 kg) on level surface.
- Do not operate or ride the vehicle while distracted or under the influence of alcohol or drugs.
- Locate and read Owner's Manual. Follow all instructions and warnings.



YAMAHA

***-K7768-**

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⚠ WARNING



GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. A fire or explosion could cause SEVERE INJURY or DEATH.

- Keep heat, sparks, and open flame away from fuel tank and fuel lines.
- Do not add fuel while engine is running or hot.
- Do not modify fuel system.
- Services should be performed by dealer or qualified personnel.

YAMAHA

OPERATION AT HIGHER SPEEDS COULD CAUSE LOSS OF CONTROL THAT COULD RESULT IN SEVERE INJURY OR DEATH.

- Do not tamper with governor to increase speed.

***-K8297-**

11 YUM1A UMAX RALLY

⚠ WARNING

Improperly loading a trailer or pulling an object can affect handling, stability, and risk of overturn or other accidents.

- Secure load to prevent it from shifting.
- Never load more than 100 lb (45 kg) tongue weight on the towing bracket.
- Do not tow more than 800 lb (363 kg) rolling weight (trailer plus cargo).
- Read Owner's/Operator's Manual before loading, towing, or pulling objects.

YAMAHA

Improper tire pressure or overloading can cause loss of control. To reduce the risk of accidents and injury or DEATH:

- Operating tire pressure: set with tires cold.

Tire size	Recommended		Minimum	
	Front	Rear	Front	Rear
20x10-10, 4-ply rated	137 kPa, 20 psi / 151 kPa, 22 psi	124 kPa, 18 psi / 137 kPa, 20 psi	124 kPa, 18 psi	137 kPa, 20 psi
23x10.5-12, 4-ply rated	137 kPa, 20 psi / 137 kPa, 20 psi	124 kPa, 18 psi / 124 kPa, 18 psi	124 kPa, 18 psi	124 kPa, 18 psi

- Never set tire pressure below minimum. Tire may dislodge from rim.

***-F1699-**

11 YUM2A UMAX RALLY

⚠ WARNING

Improperly loading a trailer or pulling an object can affect handling, stability, and risk of overturn or other accidents.

- Secure load to prevent it from shifting.
- Never load more than 150 lb (68 kg) tongue weight on the towing bracket.
- Do not tow more than 1500 lb (680 kg) rolling weight (trailer plus cargo).
- Read Owner's/Operator's Manual before loading, towing, or pulling objects.

YAMAHA

Improper tire pressure or overloading can cause loss of control. To reduce the risk of accidents and injury or DEATH:

- Operating tire pressure: set with tires cold.

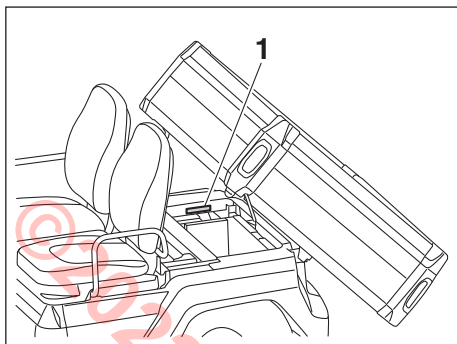
Tire size	Recommended		Minimum	
	Front	Rear	Front	Rear
20x10-10, 4-ply rated	137 kPa, 20 psi / 151 kPa, 22 psi	124 kPa, 18 psi / 151 kPa, 22 psi	124 kPa, 18 psi	151 kPa, 22 psi
20x10-10, 6-ply rated	206 kPa, 30 psi / 206 kPa, 30 psi	193 kPa, 28 psi / 193 kPa, 28 psi	193 kPa, 28 psi	193 kPa, 28 psi
23x10.5-12, 4-ply rated	137 kPa, 20 psi / 137 kPa, 20 psi	124 kPa, 18 psi / 124 kPa, 18 psi	124 kPa, 18 psi	124 kPa, 18 psi

- Never set tire pressure below minimum. Tire may dislodge from rim.

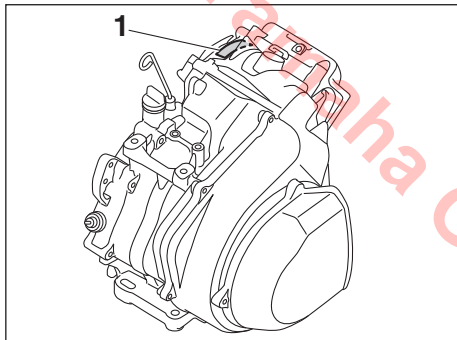
***-F1699-**

IMPORTANT LABELS

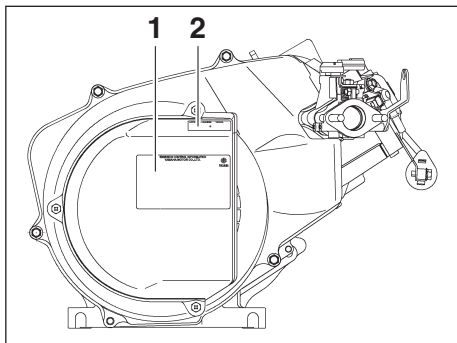
2



1. Utility vehicle serial number



1. Engine serial number



1. Engine information

UTILITY VEHICLE SERIAL NUMBER

The utility vehicle serial number is identified in the location shown.

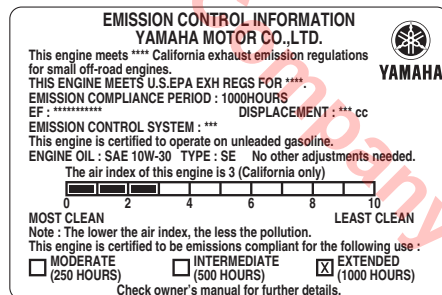
TIP

The first three digits of the serial number are for model identification; the remaining digits are the unit production number. Keep a record of these numbers for reference when ordering parts from a Yamaha dealer.

Serial number:

The engine serial number is affixed in the location shown.

1



2

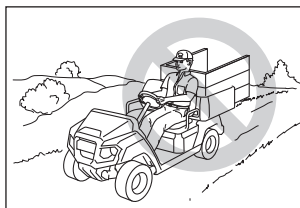
APPROVAL NUMBER YAMAHA

 Production date : See stamp on Crankcase.
 Serial : See Label on Air shroud.
 Engine family : ***** ***-1186-***

Yamaha utility vehicles are designed to be simple to operate. However, be sure to observe the following to reduce the risk of serious injury or death due to loss of control and other hazards:

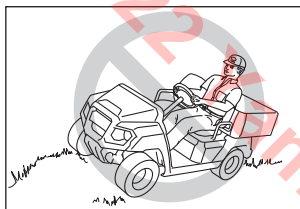
BEFORE OPERATING THE UTILITY VEHICLE

- Read this Owner's / Operator's manual and all safety and instruction labels on the utility vehicle before operating.
- Perform the pre-operation checks found in Section 5 of this manual.
- This vehicle is recommended only for operators 16 and older with a valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
- Do not allow more than one occupant per seat. This utility vehicle is restricted to two occupants.
- Never give a ride to a passenger who is unable to put both feet firmly on the floorboard while seated with his or her back against the backrest.
- Never carry passengers in the cargo bed.
- Do not operate the utility vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a utility vehicle dangerous.
- This vehicle was not manufactured for use on public streets and does not comply with federal motor vehicle safety standards applicable to passenger cars.
- Do not operate the utility vehicle on public streets, roads or highways unless allowed by law or the local regulating authority.
- Do not make any modification or addition which affects capacity or safe operation, or make any changes not in accordance with the Owner's / Operator's manual.



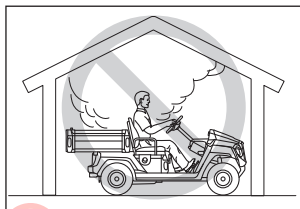
SAFETY INFORMATION

WHILE OPERATING THE UTILITY VEHICLE



- Keep your entire body inside the utility vehicle, remain seated and hold on when the vehicle is in motion.
- Do not start the utility vehicle until all occupants are seated.
- Always keep both hands on the steering wheel when driving. Always go at a speed that is proper for the terrain, visibility, and operating conditions, and your experience. Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when driving the vehicle.
- Never operate on excessively rough, slippery, or loose terrain.
- Use extra care in congested areas or when backing up. Always back up slowly, and watch carefully. Avoid starting or stopping abruptly.
- Avoid turning the steering wheel too sharply at higher speeds to avoid tipping or rolling the vehicle.
- Never attempt jumps or other stunts.
- Always drive slowly straight up or straight down slopes – never at an angle to avoid tipping or rolling the vehicle. Never operate the vehicle on slopes that are too steep for it or for your abilities.
- Never operate on slopes that are slippery or ones where you will not be able to see far enough ahead of you. Never go over the top of a slope at speed if you cannot see what is on the other side.
- Always check terrain carefully before going down slopes. Go as slowly as possible. Never go down a slope at high speed.
- Always check for obstacles before operating in a new area.
- Never operate the vehicle in fast flowing water or water deeper than 10 cm (4 in). Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.

SAFETY INFORMATION



- Do not run the engine indoors. Exhaust gas is poisonous and could result in carbon monoxide poisoning.

ACCESSORIES AND LOADING

Accessories

Accessories can affect the handling and control of your vehicle. Keep the following in mind when considering an accessory or operating a utility vehicle which has accessories.

- Choose only accessories designed for your utility vehicle. Your Yamaha dealer has a variety of genuine Yamaha accessories. Other accessories may also be available on the market. However, it is not possible for Yamaha to test all non-Yamaha accessories, nor have any control over the quality or suitability of them. Choose a genuine Yamaha accessory, or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are operating could affect your ability to control the utility vehicle.
- Do not mount an accessory where it could interfere with your ability to control the utility vehicle. Examples include (but are not limited to) an object that limits your ability to turn the steering wheel or one that limits your view.
- Use extra caution when driving a utility vehicle with accessories. The utility vehicle may handle differently than it does without accessories.

Loading

Cargo or a trailer can change the stability and handling of a utility vehicle. You must use common sense and good judgment when carrying cargo or towing a trailer. Keep the following points in mind:

- Never exceed the weight limits shown on page 57. An overloaded utility vehicle can be unstable.
- Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.
- Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.
- Cargo should always be secured in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier vehicle takes longer to stop. Do not brake abruptly when carrying loads in the cargo bed or when towing a trailer.
- Avoid making sharp turns unless at very slow speeds to avoid tipping or rolling the vehicle.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the utility vehicle.

MAINTENANCE REQUIRED FOR UTILITY VEHICLE SAFETY

Practice the following to help ensure the safety of utility vehicle operators:

- **Preventative Maintenance.** Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide a safe, properly operating utility vehicle.
- **Personnel.** Allow only qualified, trained, and authorized personnel to inspect, adjust and maintain utility vehicles.
- **Parts and Materials.** Use only replacement parts and materials recommended by the manufacturer.
- **Ventilation.** Properly ventilate all maintenance and storage areas in accordance with applicable fire codes and ordinances to avoid fire hazards. Ventilation is required to remove flammable vapors and fumes from gasoline powered vehicle storage areas. Ventilation is also required to remove hydrogen gas from the vehicle storage areas during the battery charging process.

SAFETY PRECAUTIONS DURING MAINTENANCE

When performing maintenance, follow all safety instructions contained in the manufacturer's operation and service manuals, as well as the following safety procedures:

- Properly immobilize utility vehicle before beginning any maintenance to avoid any unexpected vehicle movement.
- Properly block chassis before working underneath utility vehicle to avoid any unexpected vehicle movement.
- Before disconnecting any part of the fuel system, drain the applicable part of the system to prevent fuel leaks.
- When working on the fuel system or the battery, do not smoke, or allow any sparks or open flames near the vehicle, to avoid any fires or explosions.

SAFETY INFORMATION

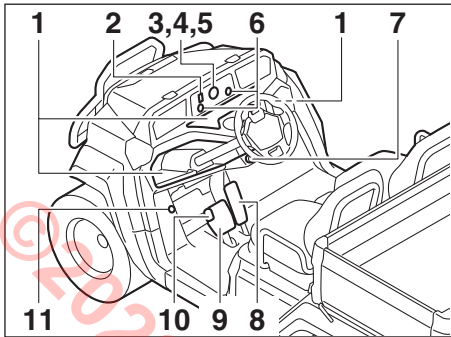
3

- Before performing any maintenance, disable the vehicle's electrical system in accordance with the manufacturer's instructions.
- Use only properly insulated tools when working on electrically powered utility vehicles or around batteries to avoid electrical shock or damage to the electrical system.
- Maintain all safety devices, including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, the vehicle must be driven by a qualified, trained and authorized person – in an area free of pedestrian traffic – to ensure proper operation and adjustment.
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- Maintain in a legible condition all nameplates, warnings, and instructions provided by the manufacturer.
- If new nameplates, warnings or instructions are needed, contact your Yamaha dealer.

FUEL HANDLING/STORAGE AND BATTERY CHARGING

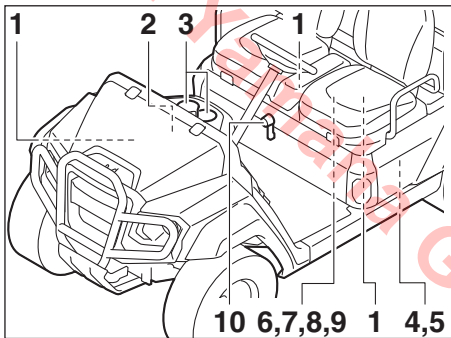
Take the following precautions to ensure maintenance worker safety:

- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements to avoid any fires or explosions.
- Only use battery charging facilities and procedures that are in accordance with applicable ordinances and regulations to avoid explosions, electrical shock or damage to the electrical system.
- Periodically inspect fueling to be certain that applicable safety codes, regulations and procedures are being followed to avoid any fires or explosions.

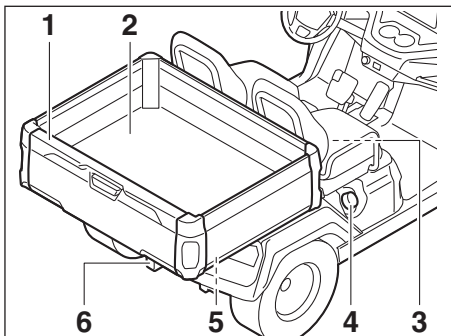


FEATURES

1. Storage compartment
2. Light switch
3. Engine/oil warning light
4. Fuel gauge
5. Hour meter
6. USB port
7. Main switch
8. Accelerator pedal
9. Brake pedal
10. Parking brake pedal
11. Horn switch

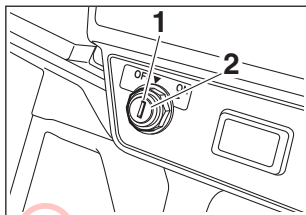


1. Storage compartment
2. USB fuse
3. Cup holder
4. Battery
5. Fuses
6. Air filter
7. Engine oil level dipstick
8. Engine oil filler hole
9. Spark plug
10. Drive select lever



1. Tailgate
2. Cargo bed
3. Storage compartment
4. Fuel cap
5. Transaxle oil level plug
6. Trailer hitch receiver bracket

CONTROLS



1. OFF
2. ON

MAIN SWITCH

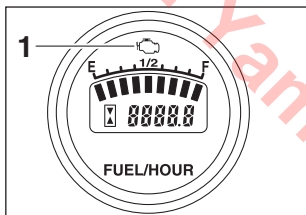
The main switch positions are described below.

“OFF”

The electrical power circuit is switched off. The key can be removed only in this position.

“ON”

The electrical power circuit is switched on. The utility vehicle can be driven.



1. Engine/oil warning light

ENGINE/OIL WARNING LIGHT

When the engine oil level falls below an acceptable level, this light comes on.

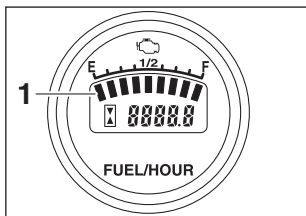
NOTICE

If the light comes on, stop the engine, check the engine oil level and add oil as necessary.

When the engine/oil warning light is flashing while the main switch is in the “ON” position, there may be a problem with the fuel injection system, which may affect performance, emissions and fuel economy or cause damage to the fuel injection system or engine.

NOTICE

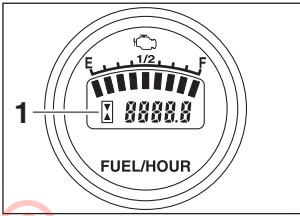
If the light is flashing, do not operate the vehicle. Contact your Yamaha Service representative to have the vehicle serviced.



1. Fuel gauge

FUEL GAUGE

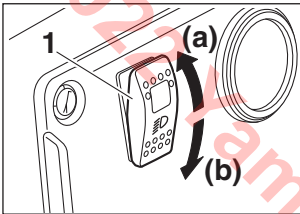
The fuel gauge displays the fuel level in the fuel tank. The fuel gauge will only work when the main switch is in the “ON” position.



1. Hour meter

HOUR METER

The hour meter displays the total number of hours the utility vehicle has been run. Use the hour meter to determine when scheduled maintenance is due.



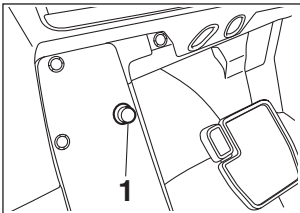
1. Light switch

LIGHT SWITCH “☞”

Push the upper side (a) of the light switch to turn on the headlights and meter lighting.

Push the lower side (b) of the light switch to turn off the headlights and meter lighting.

4



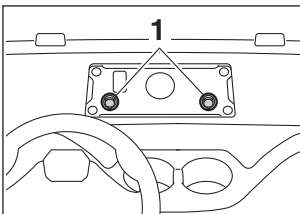
1. Horn switch

HORN SWITCH

The horn switch is located adjacent to the brake pedal, and is activated by depressing with your foot.

TIP

It is advisable to sound the horn when approaching blind corners.



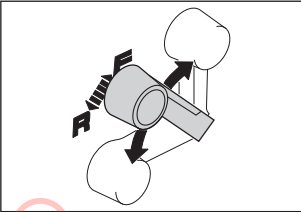
1. USB port

USB PORTS

The USB ports are in the locations shown.

The USB ports can be used to power or charge USB devices or accessories. The USB ports are powered only when the main switch is in the on position.

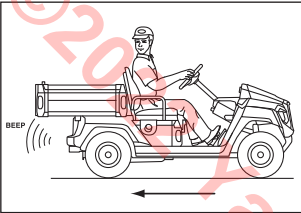
CONTROLS



DRIVE SELECT LEVER

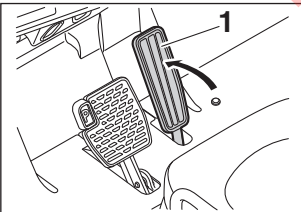
The drive select lever is used to shift the utility vehicle into forward or reverse. After coming to a complete stop, move the lever to the desired position.

Lever Position	Vehicle Movement
F	Forward
R	Reverse



TIP

The reverse alarm will sound when the drive select lever is turned to "R."

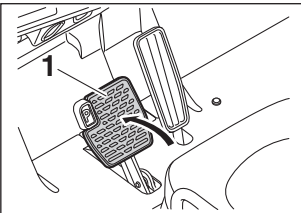


1. Accelerator pedal

ACCELERATOR PEDAL

The accelerator pedal controls the vehicle's speed.

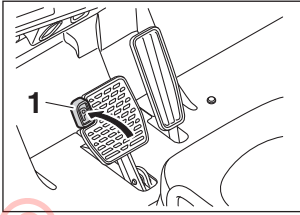
Action	Vehicle Speed
Depress pedal	Increase
Release pedal	Decrease



1. Brake pedal

BRAKE PEDAL

Press down on the brake pedal to stop the utility vehicle.



1. Parking brake pedal

PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the utility vehicle.

TIP

Release the parking brake by depressing the accelerator pedal.

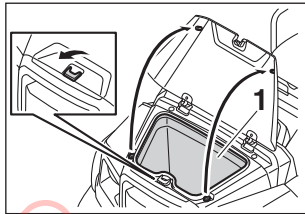


WARNING

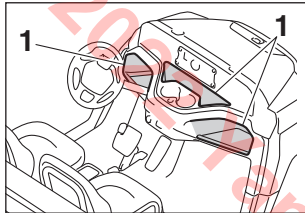
The parking brake will automatically release when the accelerator pedal is depressed. If the main switch is in the “ON” position, depressing the accelerator may suddenly cause the utility vehicle to move.

Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

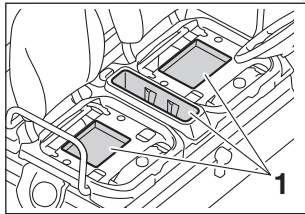
CONTROLS



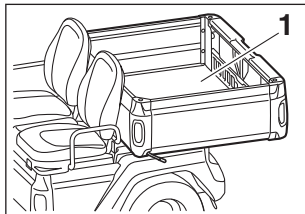
1. Storage compartment



1. Storage compartment



1. Storage compartment



1. Cargo bed

STORAGE COMPARTMENTS

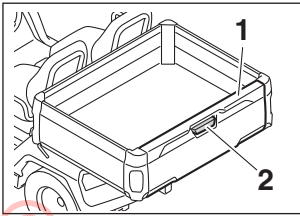
This model is equipped with storage compartments in the locations shown.

Maximum load limit:

Under-hood storage compartment:

10 kg (22 lb)

CARGO BED



1. Tailgate
2. Latch

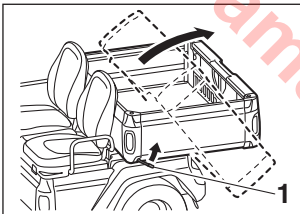
OPENING AND CLOSING THE TAILGATE

To open

Pull the latch, and then lower the tailgate.

To close

Lift the tailgate to the original position, and then push the tailgate to securely lock it in place.



1. Cargo bed release lever

LIFTING AND LOWERING THE CARGO BED

To lift

Pull up the cargo bed release lever, and then slowly lift up the cargo bed until it stops.

To lower

With hands and fingers clear of pinch points, lower the cargo bed slowly to its original position and be sure it is locked into place.

Maximum load limit:

YUM1A UMAX RALLY	YUM2A UMAX RALLY
136 kg (300 lb)	363 kg (800 lb)



WARNING

Uncontrolled Movement Hazard

- Never exceed the stated load capacity for this vehicle.
- Distribute the load evenly.
- Secure cargo in cargo bed.
- Never tow cargo that is not secured.
- Reduce speed and allow greater distances for braking.

Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

WARNING

Fall and Thrown Object Hazard

- Do not carry passengers in the cargo bed.
- Death or serious personal injury can result from failing to comply with the safety instructions in this manual.
-

WARNING

Crush Hazard

- Keep hands and fingers away from cargo bed and seat tracks.
- Have others back away from vehicle before closing cargo bed.
- Do not allow passengers to sit on the seat when closing cargo bed.

Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

WARNING

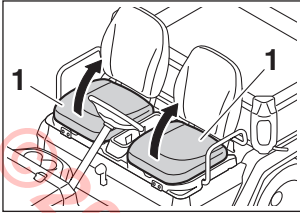
Fire or Explosion Hazard

- Do not fill fuel containers in the cargo bed.
- Set fuel container on the ground.
- Keep fuel nozzle in contact with can inlet while filling.
- Tighten cap before setting fuel container in cargo bed.

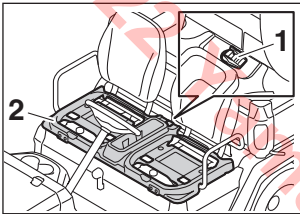
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

SEAT

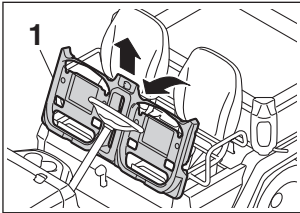
To remove



1. Seat cushion



1. Tab
2. Under-seat panel



1. Under-seat panel

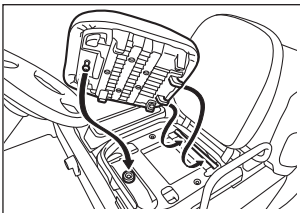
1. Lift the front of the seat cushion, and then pull the cushion off.

2. Pull the tab on the under-seat panel lock up, and then turn the lock 1/4 turn clockwise.

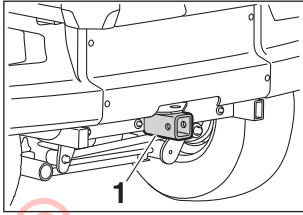
3. Remove the under-seat panel as shown.

To install

1. Place the under-seat panel in the original position.
2. Turn the lock 1/4 turn counterclockwise, and then push the tab on the lock down.
3. Insert the projections on the rear of the seat cushion under the seat frame, and then insert the projection on the front of the cushion into the grommet while pushing the cushion downward.



CONTROLS



1. Trailer hitch receiver bracket

TRAILER HITCH RECEIVER BRACKET

This vehicle is equipped with a 5 cm (2 in) receiver bracket for a standard trailer hitch. Trailer towing equipment can be obtained at a Yamaha dealer.

PRE-OPERATION CHECKS

Pre-operation checks should be made each time you use your utility vehicle. Get in the habit of performing the following checks in the same way so that they become second nature.

WARNING

To keep vehicle from moving while performing pre-operation checks:

- Remove main switch key.
- Apply parking brake.

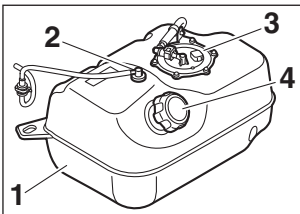
Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

PRE-OPERATION CHECKS

Refer to the Periodic Maintenance and adjustment charts on page 34.

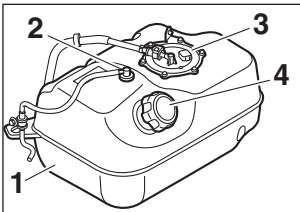
5

YUM1A UMAX RALLY



1. Fuel tank
2. Fuel tank vent
3. EFI fuel pump
4. Fuel cap

YUM2A UMAX RALLY



1. Fuel tank
2. Fuel tank vent
3. EFI fuel pump
4. Fuel cap

FUEL SYSTEM

Make sure there is sufficient fuel in the tank. Also check fuel lines and connections for leakage.

WARNING

Gasoline and its vapors are highly flammable and explosive. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.

TIP

To access the fuel tank, remove the seat.

Recommended fuel:

Regular unleaded gasoline (Gasohol [E10] acceptable)

Fuel tank capacity:

20 L (5.2 US gal)

PRE-OPERATION CHECKS

1. Stop engine and allow it to cool for several minutes before refueling.
Do not smoke when refueling and keep away from sparks, flames or other sources of ignition. Refuel in a well-ventilated area.
2. Take care not to spill gasoline.
If gasoline spills, wipe it up immediately with dry rags. Always dispose of gasoline-soaked rags properly.
3. Tighten the fuel cap securely after refueling.

WARNING

Gasoline is poisonous and can cause injury or death. If you swallow gasoline, inhale a lot of gasoline vapor or get gasoline in your eyes, get immediate medical attention.

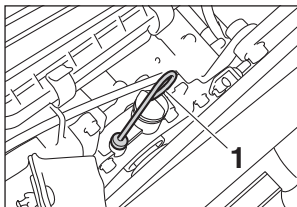
If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.

NOTICE

Avoid using gasoline blended with methyl alcohol which can damage fuel system parts.

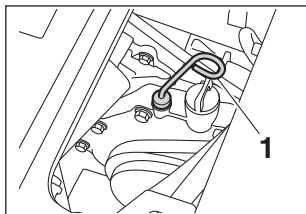
5

YUM1A UMAX RALLY



1. Oil level dipstick

YUM2A UMAX RALLY



1. Oil level dipstick

ENGINE OIL

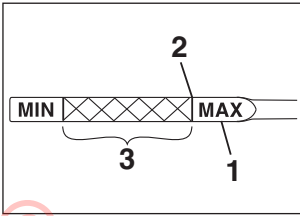
With the utility vehicle parked on level ground, remove the dipstick and make sure the engine oil is between the MIN and MAX marks (the crosshatched area on the end of the dipstick).

TIP

YUM1A UMAX RALLY: To access the dipstick, remove the seat.

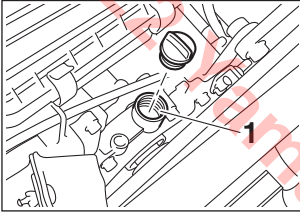
YUM2A UMAX RALLY: To access the dipstick, lift the cargo bed up.

PRE-OPERATION CHECKS



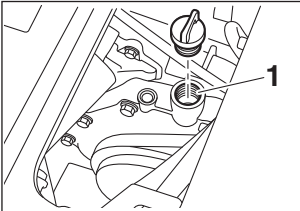
1. Oil level dipstick
2. Maximum oil level
3. Safe operating range

YUM1A UMAX RALLY



1. Oil filler hole

YUM2A UMAX RALLY



1. Oil filler hole

If the oil level is below the MIN mark on the dipstick, add oil through the oil filler hole until the oil level is between the MIN and MAX marks.

NOTICE

Engine damage can result.

- Use care not to fill past the MAX dipstick mark, and be sure no foreign material enters the crankcase.
- Use care not to get oil on the starter belt.

Recommended oil brand:

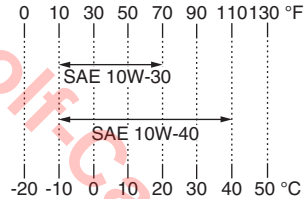


Available oil grade:

API SE type or higher JASO MA or MB

Available viscosity index:

10W-30 or 10W-40



Engine oil capacity:

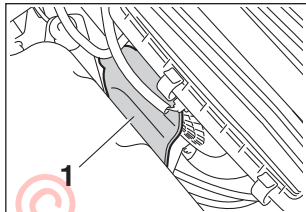
1.10 L (1.16 US qt)

TIP

The distance between the dipstick marks represents approx. 0.5 L (0.5 US qt) of oil.

PRE-OPERATION CHECKS

YUM1A UMAX RALLY



1. Engine cooling inlet duct

YUM2A UMAX RALLY



1. Engine cooling inlet duct

ENGINE COOLING INLET DUCT

Check the engine cooling inlet duct for debris. Remove any debris present.

TIP

To access the engine cooling inlet duct, remove the seat.

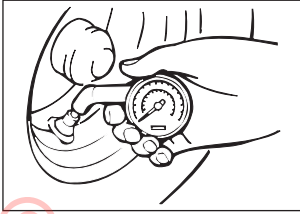
BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. Check the battery terminals for corrosion and tightness.

WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. **KEEP OUT OF REACH OF CHILDREN.**

PRE-OPERATION CHECKS

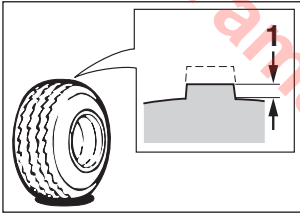


TIRE CONDITION

Tire Air Pressure

Check the tire air pressure before operating the utility vehicle.

Tire pressure	
Recommended:	
Front:	137 kPa (1.40 kgf/cm ² , 20 psi)
Rear:	137 kPa (1.40 kgf/cm ² , 20 psi)
Minimum:	
Front:	124 kPa (1.26 kgf/cm ² , 18 psi)
Rear:	124 kPa (1.26 kgf/cm ² , 18 psi)

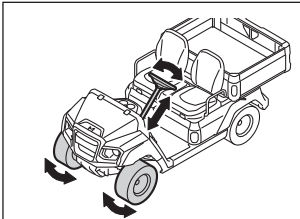


1. Wear limit

Tire Wear Limit

Check the tire surface for damage, cracks or embedded objects. When tire tread wears down to 3 mm (0.12 in), replace the tire.

5



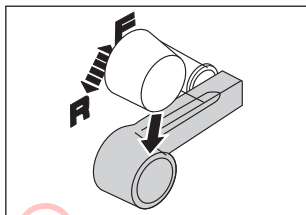
STEERING SYSTEM

Check the steering system for excessive free play by:

- moving the steering wheel up and down, and back and forth.
- turning the steering wheel slightly to the right and left.

If you feel excessive free play, or hear rattling sounds which may indicate loose steering components, consult a Yamaha dealer.

PRE-OPERATION CHECKS



REVERSE ALARM

Check the reverse alarm by moving the drive select lever to “R” for reverse. The alarm should sound.

PEDAL OPERATION

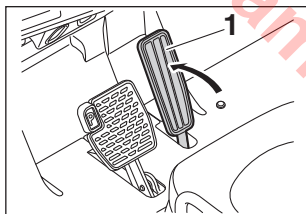
Check the following pedal controls for proper operation. If a pedal does not work properly, consult a Yamaha dealer.

Accelerator Pedal



WARNING

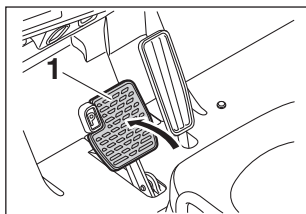
With the main switch in the “OFF” position, make sure the accelerator pedal operates smoothly.



1. Accelerator pedal

Brake Pedal

Make sure the brake pedal feels firm when pressed and returns to its original position when released.



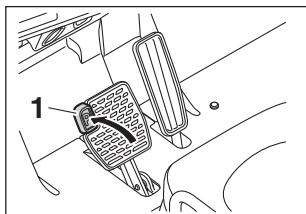
1. Brake pedal

Parking Brake Pedal

Make sure the parking brake pedal locks in place with a positive click, and releases when the accelerator pedal is pressed.

TIP

Release the parking brake by depressing the accelerator pedal.

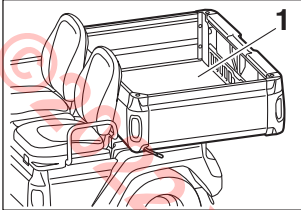


1. Parking brake pedal

PRE-OPERATION CHECKS

BODY AND CHASSIS

Before each use, visually inspect the utility vehicle body and chassis for damage and/or missing parts.

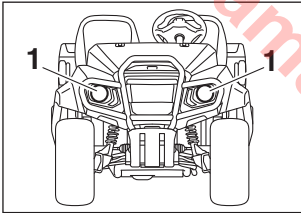


1. Cargo bed

CARGO BED

Make sure the cargo bed is lowered completely and is latched in the down position.

Make sure the tailgate is latched in the closed position.



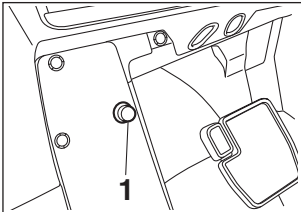
1. Headlight

HEADLIGHTS

Ensure the headlights are operational.

WARNING

Never operate the utility vehicle at night or during inclement weather without properly working headlights. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

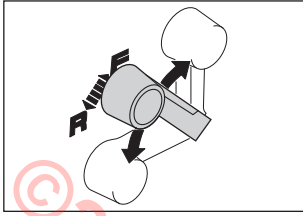


1. Horn switch

HORN SWITCH

Make sure the horn operates correctly.

OPERATION

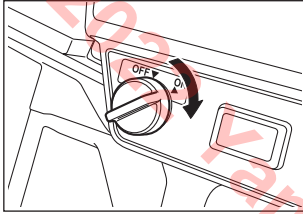


STARTING

1. With the parking brake applied, turn the drive select lever to “F” for forward, or “R” for reverse.

NOTICE

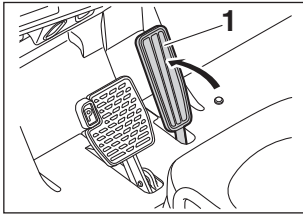
Do not shift from “F” forward to “R” reverse while the utility vehicle is moving. Transmission damage can result.



2. Turn the main switch to “ON.”

WARNING

Do not depress the accelerator pedal when turning on the main switch or the vehicle may start moving unexpectedly. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

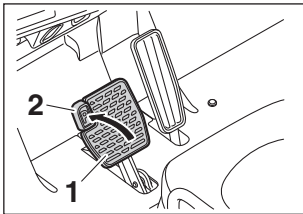


3. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The vehicle will start to move.

TIP

The parking brake automatically releases when the accelerator pedal is depressed.

1. Accelerator pedal



1. Brake pedal
2. Parking brake pedal

STOPPING

To stop the utility vehicle, gradually press down on the brake pedal.

When the vehicle has come to a stop, apply the parking brake pedal and turn the main switch to “OFF.”

NOTICE

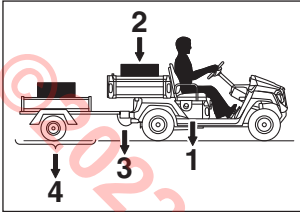
Do not hold the utility vehicle on an incline with the accelerator – use the brake. Transmission damage can result.

LOADING

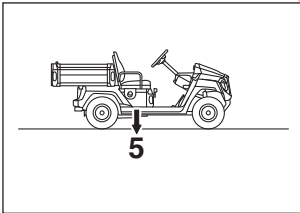
Cargo or a trailer can change the stability and handling of a vehicle.

You must use common sense and good judgment when carrying cargo or towing a trailer. Keep the following points in mind:

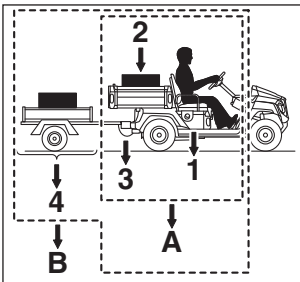
- Never exceed the weight limits shown. An overloaded vehicle can be unstable.



1. Occupant Capacity
2. Maximum Cargo Bed Capacity
3. Maximum Tongue Weight
4. Maximum Towing Capacity



5. Vehicle Weight (Without Sun top)



- A. Vehicle Rated Capacity
- B. Vehicle Combination Rated Capacity
- C. Maximum Gross Vehicle Weight Rating (5+A+Sun top)
- D. Maximum Gross Combination Weight Rating (5+B+Sun top)

	YUM1A UMAX RALLY	YUM2A UMAX RALLY
1	181 kg (400 lb)	181 kg (400 lb)
2	136 kg (300 lb)	363 kg (800 lb)
3	45 kg (100 lb)	68 kg (150 lb)
4	363 kg (800 lb)	680 kg (1500 lb)
5	442 kg (973 lb)	473 kg (1042 lb)
A	317 kg (700 lb)	544 kg (1200 lb)
B	363 kg (800 lb)	680 kg (1500 lb)
C	787 kg (1735 lb)	1045 kg (2303 lb)
D	832 kg (1835 lb)	1181 kg (2603 lb)

- Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.
- Load cargo in the cargo bed as close to the center of the vehicle as possible to avoid tipping the vehicle.
- Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation.
- Make sure the load does not interfere with controls or your ability to see where you are going.

OPERATION

- Drive more slowly than you would without a load. The more weight you carry, the slower you should go.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds to avoid tipping or rolling the vehicle.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.

WARNING

Uncontrolled Movement Hazard

- **Never exceed the stated load capacity for this vehicle.**
 - **Distribute the load evenly.**
 - **Secure cargo in cargo bed.**
 - **Never tow cargo that is not secured.**
 - **Reduce speed and allow greater distances for braking.**
-

WARNING

Fall and Thrown Object Hazard

- **Do not carry passengers in the cargo bed.**
-

WARNING

Fire or Explosion Hazard

- **Do not fill fuel containers in the cargo bed.**
 - **Set fuel container on the ground.**
 - **Keep fuel nozzle in contact with can inlet while filling.**
 - **Tighten cap before setting fuel container in cargo bed.**
-

MAINTENANCE AND ADJUSTMENT

PERIODIC MAINTENANCE AND ADJUSTMENT CHARTS

Regular maintenance is required for the best performance and safe operation of your utility vehicle.

WARNING

Be sure to turn off the main switch and apply the parking brake when you perform maintenance, unless otherwise specified. If the owner is not familiar with servicing the machine, death or serious personal injury can result. When in doubt the work should be done by a Yamaha dealer or other qualified mechanic.

NOTICE

Yamaha Golf-Car Company does not approve the use of high-pressure washers to clean the products they manufacture. Doing so may damage the finish on the body or result in doing other damage not covered by warranty.

CS - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE

	Remarks	Daily Pre- Operation	20 hours 100 mi 160 km (Every month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
PRE-OP	Check engine oil	CS	CS	CS				25
	Check engine air cooling inlet duct	CS	CS	CS	CS	CS	CS	27
	Check fuel lines for leakage	CS	CS	CS	CS	CS	CS	24
	Check fuel level	CS	CS	CS	CS	CS	CS	24
	Check for looseness and corrosion of battery terminals and hold downs	CS	CS	CS	CS	CS	CS	27
	Check brake pedal free play and adjust if necessary	CS	CA	CA	CA	CA	CA	52
	Check steering operation	CS	CS	CS	CS	CS	CS	28
	Check tire pressure, tread depth, tire surface for damage	CS	CA	CA	CA	CA	CA	28

* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

** Related to emission control system.

MAINTENANCE AND ADJUSTMENT

CS - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE

	Remarks	Daily Pre- Operation	20 hours 100 mi 160 km (Every month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
PRE-OP	Check body and chassis for damage	CS	CS	CS	CS	CS	CS	30
	Check tightness of all bolts, nuts, screws and rivets	CS	CS	CS	CS	CS	CS	*
	Check reverse alarm operation	CS	CS	CS	CS	CS	CS	29
EVERY MONTH	Check wear of drive belt		CS	CS	CS	CS	CS	45
	Check operation of Forward / Reverse shifting		CS	CS	CS	CS	CS	31
	Clean / Lube pedal control area		CL	CL	CL	CL	CL	*
EVERY 6 MONTHS	Check fuel hoses for cracks or damage, and replace if necessary			CS R	CS R	CS R	CS R	*
	Wash pre-filter and check air filter element			S	S	S	S	44
	Check spark plug and plug cap condition** / Check compression			CS	CS	CS	CS	39
	• Check brake cable operation • Inspect for abrasions and damage, and replace if necessary			CS R	CS R	CS R	CS R	51
	Check shock absorbers for oil leaks and damaged springs			CS	CS	CS	CS	*

* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

** Related to emission control system.

MAINTENANCE AND ADJUSTMENT

CS - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE

	Remarks	Daily Pre- Opera- tion	20 hours 100 mi 160 km (Every month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
EVERY YEAR	Replace engine oil				R	R	R	41
	Adjust throttle cables**				CA	CA	CA	*
	Check tail pipe screen for obstructions				CS	CS	CS	*
	Lubricate primary sheave and secondary sheave				L	L	L	*
	Check starter V-belt for damage and tension				CS	CS	CS	*
	Check drive belt for slippage, wear or scratches				CS	CS	CS	45
	Check operation of speed limiter				CS	CS	CS	*
	Apply battery terminal protectant				S	S	S	*
	Check wiring connections and insulation				CS	CS	CS	*
	Check rear axle bearing play for roughness or free play				CS	CS	CS	*
	Check steering knuckle bushing free play / Adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness, front wheel bearing play				CS	CS	CS	*
	Check transaxle oil level and inspect for leakage				CS	CS	CS	50
	Adjust parking brake release				CA	CA	CA	53

* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

** Related to emission control system.

MAINTENANCE AND ADJUSTMENT

CS - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE

	Remarks	Daily Pre- Opera- tion	20 hours 100 mi 160 km (Every month)	125 hrs 600 mi 1000 km (Every 6 months)	250 hrs 1200 mi 2000 km (Every year)	500 hrs 2500 mi 4000 km (Every 2 years)	1000 hrs 5000 mi 8000 km (Every 4 years)	Page
EVERY 4 YEARS	Check starter gen- erator brushes for wear and commu- tator for dirt						CS S	*
	Check tightness of cylinder head / Adjust valves						CA	*
	Replace transax- le oil						CS R	*
	Inspect brake shoes and adjust or replace if nec- essary						CS R	*

* Items without a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

** Related to emission control system.

MAINTENANCE AND ADJUSTMENT

EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

Item	Abbreviation
ELECTRONIC FUEL INJECTION	EFI
ELECTRONIC CONTROL UNIT & PLUG, SPARK	ECU
CRANKCASE 1 & HEAD, CYLINDER 1	PCV (Positive Crankcase Ventilation)
AIR FILTER ASSY.	ACL (Air Cleaner)
MUFFLER	MUFF., 2
CARBON CANISTER	CC
INVERSION VALVE	IV

The above items and the corresponding abbreviations are provided in accordance with U.S. EPA REGULATIONS FOR SMALL NONROAD ENGINES and the CALIFORNIA REGULATIONS FOR NEW 1995 AND LATER OFF-HIGHWAY RECREATIONAL VEHICLES AND ENGINES.

The abbreviations conform to the latest version of the SAE's recommended practice document J1930, "Diagnostic Acronyms, Terms, and Definitions For Electrical/Electronic System."

It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

7

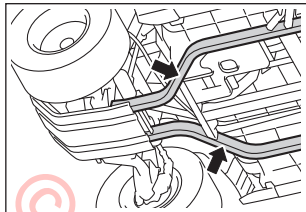
TROUBLESHOOTING

If the vehicle's engine will not start, use the following chart:

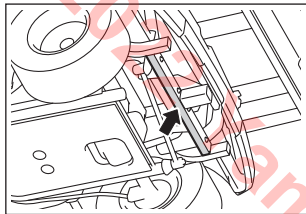
Cause	Remedy
Fuel System	
No fuel in tank	Fill fuel tank
Fuel pump inoperable	Consult Yamaha dealer
Clogged fuel line	Consult Yamaha dealer
Foreign matter in fuel filter	Consult Yamaha dealer
Dirty injector	Consult Yamaha dealer
Electrical System	
Spark plug dirty with carbon, or wet	Clean carbon or wipe spark plug dry
Faulty ignition system	Consult Yamaha dealer

MAINTENANCE AND ADJUSTMENT

Front



Rear



RECOMMENDED JACKING POINTS

Jack up the vehicle at the indicated jacking points.

SPARK PLUG INSPECTION

You should periodically remove and inspect the spark plug. Dirty or worn spark plugs can cause poor performance.

WARNING

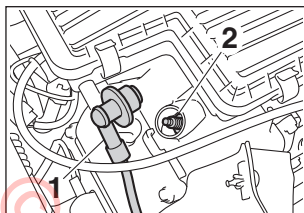
When removing or installing the spark plug, be careful not to damage the insulator. A damaged insulator could allow external sparks, which could lead to explosion or fire. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

TIP

To access the spark plug, remove the seat.

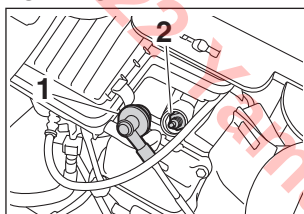
MAINTENANCE AND ADJUSTMENT

YUM1A UMAX RALLY

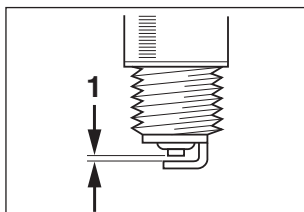


1. Spark plug cap
2. Spark plug

YUM2A UMAX RALLY



1. Spark plug cap
2. Spark plug



1. Gap

1. Check for discoloration and remove carbon deposits with a spark plug cleaner or wire brush. The normal electrode color will be tan.

2. Check the spark plug type, and check the spark plug gap with a feeler gauge.

Standard spark plug:

BPR4ES

Spark plug gap:

0.7-0.8 mm (0.028-0.031 in)

3. Clean the gasket and plug surfaces and install the spark plug finger-tight before tightening to the following torque:

Spark plug torque:

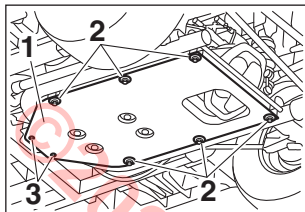
20 N·m (2.0 kgf·m, 15 lb·ft)

MAINTENANCE AND ADJUSTMENT

ENGINE OIL REPLACEMENT

TIP

For information on the jacking points, see page 39.



1. Bottom panel
2. Bolt
3. Quick fastener

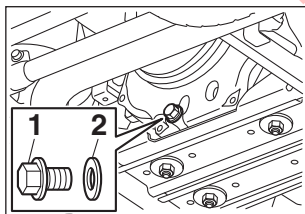
! WARNING

Use caution not to touch hot engine oil or hot engine parts during the following procedure. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

3. Place an oil pan under the engine oil drain plug.
4. Remove the oil drain plug and let the oil drain completely.

TIP

Dispose of used oil in an environmentally safe way, such as taking oil to an oil collection station.



1. Engine oil drain plug
2. Gasket

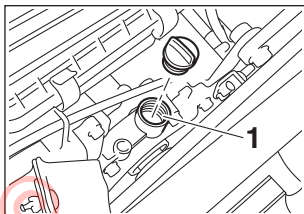
5. Install the drain plug, along with a new drain plug gasket, and finger tighten before tightening to the following torque:

Drain plug torque:

27 N·m (2.7 kgf·m, 20 lb·ft)

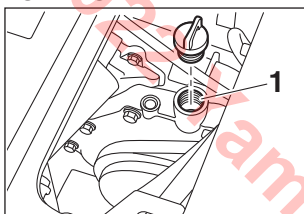
MAINTENANCE AND ADJUSTMENT

YUM1A UMAX RALLY



1. Oil filler hole

YUM2A UMAX RALLY



1. Oil filler hole

6. Add the correct quantity of oil through the oil filler hole.

Recommended oil brand:

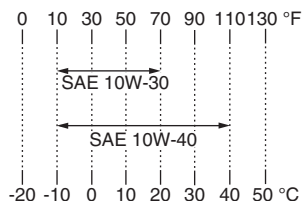


Available oil grade:

API SE type or higher JASO MA or MB

Available viscosity index:

10W-30 or 10W-40



Engine oil capacity:

1.10 L (1.16 US qt)

7. Install the bottom panel by installing the bolts and quick fasteners, and then tighten the bolts to the following torque:

Bottom panel bolt torque:

7 N·m (0.7 kgf·m, 5.2 lb·ft)

NOTICE

Use care not to fill past the **MAX** dipstick mark, and be sure no foreign material enters the crankcase. Serious engine damage can result.

After replacing engine oil, check for oil leaks around the drain plug. If oil leaks are found, consult a Yamaha dealer.

MAINTENANCE AND ADJUSTMENT

WHY YAMALUBE

YAMALUBE oil is a Genuine YAMAHA Part born of the engineers' passion and belief that engine oil is an important liquid engine component. We form teams of specialists in the fields of mechanical engineering, chemistry, electronics and track testing, and have them develop the engine together with the oil it will use. Yamalube oils take full advantage of the base oil's qualities and blend in the ideal balance of additives to make sure the final oil clears our performance standards. Thus, Yamalube mineral, semisynthetic and synthetic oils have their own distinct characters and value. Yamaha's experience gained over many years of research and development into oil since the 1960's helps make Yamalube the best choice for your Yamaha engine.



MAINTENANCE AND ADJUSTMENT

AIR FILTER

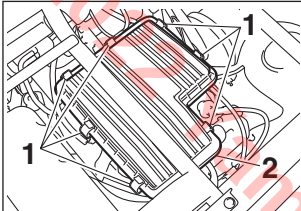
To remove the air filter elements:

TIP

YUM1A UMAX RALLY: To access the air filter case, remove the seat.

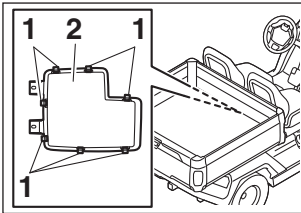
YUM2A UMAX RALLY: To access the air filter case, remove the seat and lift the cargo bed up.

YUM1A UMAX RALLY

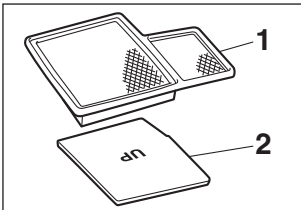


1. Air filter cover clips
2. Air filter cover

YUM2A UMAX RALLY



1. Air filter cover clips
2. Air filter cover



1. Air filter
2. Pre-filter

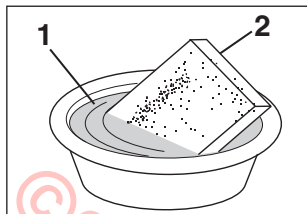
1. Unlatch the air filter cover clips and remove cover.

2. Lift the air filter and pre-filter out of the air filter case.

NOTICE

Be careful not to drop anything into the air inlet. Serious engine damage can result.

MAINTENANCE AND ADJUSTMENT



1. Soap and water
2. Pre-filter

Inspection and cleaning:

3. Wash the foam pre-filter in soap and water. Allow it to dry.

4. Check the pre-filter. If damaged or dirty, replace it.

NOTICE

Do not wring out the foam pre-filter, this could cause it to tear.

5. To install the elements, reverse the above steps.

NOTICE

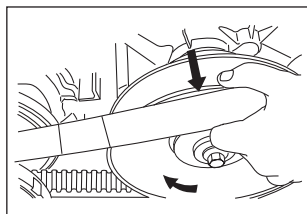
The pre-filter has a notch on one side. It will only fit in the case one way. Serious engine damage can result from an improperly positioned filter.

DRIVE BELT

To remove the drive belt:

TIP

To access the drive belt, remove the seat and lift the cargo bed up.



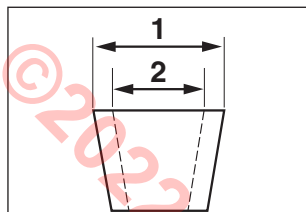
1. Set the drive select lever halfway between forward and reverse.
2. Pull up on the drive belt and push it outward over the edge of the secondary sheave.

MAINTENANCE AND ADJUSTMENT

3. Turn the secondary sheave clockwise and the drive belt will roll off the sheave.
4. Remove the drive belt from the primary sheave.

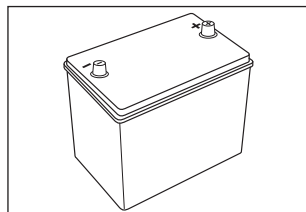
Inspection:

To inspect the drive belt, check for frayed edges or tears, and measure drive belt against the following specification. If the belt shows excessive wear or damage, replace the belt with a new one.



1. New: 31.0 mm (1.22 in)
2. Replace when belt reaches: 28.0 mm (1.10 in)

5. To install the drive belt, reverse the above steps, rolling the belt back over the secondary sheave.



BATTERY

The 12-volt battery that provides starting power to your gas vehicle normally does not require the addition of water. If the battery loses its charge, have an experienced mechanic charge it.

WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes, or clothing.

Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

EYES: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc., away.

Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.

MAINTENANCE AND ADJUSTMENT

FUSE REPLACEMENT

WARNING

Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

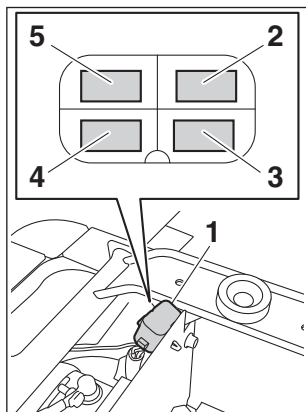
NOTICE

When replacing a fuse, be sure the main switch is turned off to prevent accidental short-circuiting and electrical system damage.

The fuse holder is located under the seat. The USB fuse is located under the front panel.

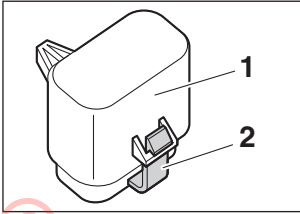
To access the fuse holder

1. Remove the seat. (See page 22.)
2. Locate the fuse holder on the main wire harness adjacent to the battery.
3. Depress the locking tab of the fuse holder, and then remove the fuse holder cover.



1. Fuse holder cover
2. Main Mini fuse (25A, 32V)
3. Ignition Mini fuse (10A, 32V)
4. Lights Mini fuse (15A, 32V)
5. 12V ACC Mini fuse (10A, 32V) (Optional)

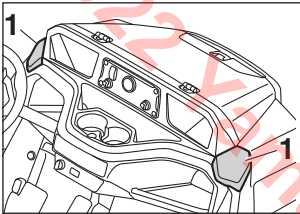
MAINTENANCE AND ADJUSTMENT



1. Fuse holder cover
2. Locking tab

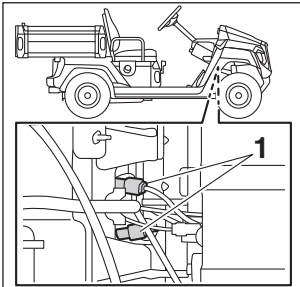
4. Pull the fuse out and inspect it. Replace the fuse if necessary.
5. To install the seat, reverse the above steps.

To access the USB fuse



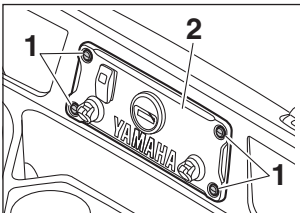
1. Front frame cover

1. Remove the front frame covers.



1. USB coupler

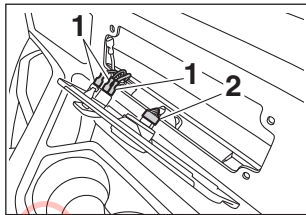
2. Access the USB couplers from underneath the vehicle and disconnect them.



1. Quick fastener
2. Meter panel

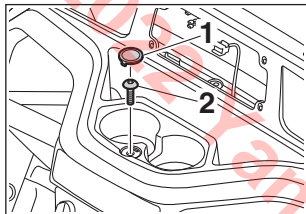
3. Remove the meter panel by removing the quick fasteners.

MAINTENANCE AND ADJUSTMENT



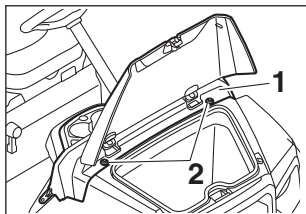
- 1. Light switch lead
- 2. Meter coupler

4. Disconnect the light switch leads and meter coupler.



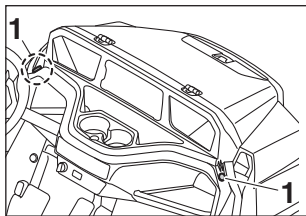
- 1. Ornament
- 2. Bolt

5. Remove the ornament, and then remove the bolt.

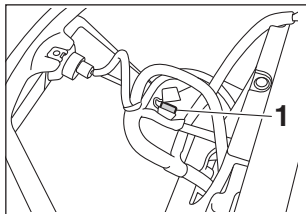


- 1. Front panel
- 2. Bolt

6. Remove the front panel by removing the bolts and quick fasteners.



- 1. Quick fastener



- 1. USB Blade fuse (5A, 32V)

MAINTENANCE AND ADJUSTMENT

7. Pull the fuse out and inspect it. Replace the fuse if necessary.
8. To install the front panel, reverse the above steps.

TRANSAXLE OIL

To check transaxle oil level:

TIP

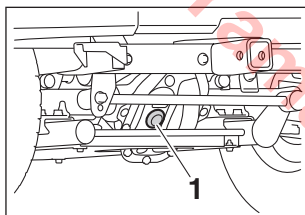
For information on the jacking points, see page 39.

1. Place the utility vehicle on a flat, level surface.
2. Place an oil pan under the transaxle case.
3. Clean the area around the oil level plug and then remove the plug.

NOTICE

Do not allow foreign material to enter transaxle. Serious transaxle damage can result.

4. The oil level should be up to the brim of the transaxle oil level hole.
5. If needed, add gear oil until it starts to flow from the oil level plug hole.



1. Oil level plug

Recommended oil brand:



Available viscosity index:

SAE 80W-90 or SAE 90

Transaxle oil change quantity:

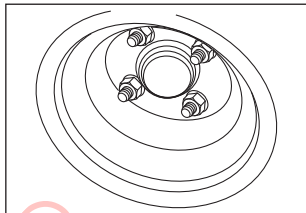
400 cc (400 mL, 0.42 US qt)

6. Allow excess gear oil to flow out of the hole until it stops.
7. Install the oil level plug.

TIP

For transaxle oil replacement, consult a Yamaha dealer or other qualified mechanic.

MAINTENANCE AND ADJUSTMENT



WHEEL REPLACEMENT

WARNING

Before performing wheel or brake maintenance, verify that the main switch is in the “OFF” position. Accidental starting of the vehicle could cause the vehicle to move, causing death or serious personal injury.

To remove and install a wheel on your utility vehicle:

TIP

For information on the jacking points, see page 39.

1. With the wheels blocked to prevent the utility vehicle from moving, loosen the wheel nuts.
2. Elevate the utility vehicle with a suitable jack and remove the wheel nuts and the wheel.
3. Reverse the removal steps when installing the wheel.

Wheel nut tightening torque:

100 N·m (10 kgf·m, 74 lb·ft)

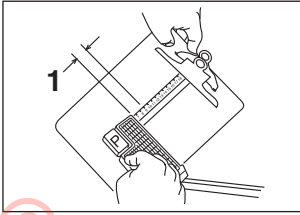
BRAKE ADJUSTMENT

The brakes on your utility vehicle are self-adjusting. Before you operate the vehicle, press down on the brake pedal several times to make sure the brakes are functioning properly.

WARNING

Consult your Yamaha dealer before using your utility vehicle if you suspect brake problems. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

MAINTENANCE AND ADJUSTMENT



1. Brake pedal free play

BRAKE PEDAL FREE PLAY ADJUSTMENT

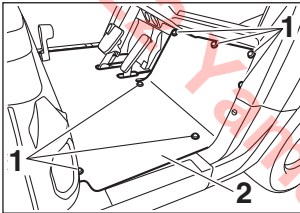
Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

Brake pedal free play:

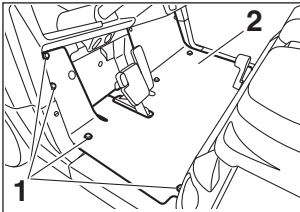
50-55 mm (1.97-2.17 in)

To adjust the brake pedal free play:

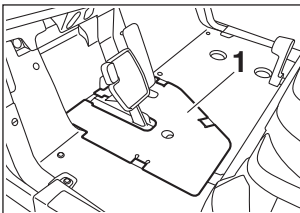
1. Remove the floor mat by removing the quick fasteners.



1. Quick fastener
2. Floor mat



1. Quick fastener
2. Floor mat

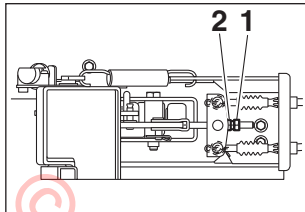


1. Service lid

2. Remove the service lid.

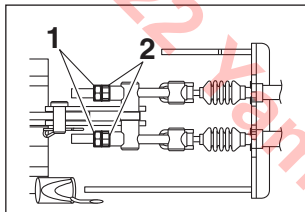
MAINTENANCE AND ADJUSTMENT

YUM1A UMAX RALLY



1. Locknut
2. Adjusting nut

YUM2A UMAX RALLY



1. Locknut
2. Adjusting nut

3. If the free play distance needs adjusting, loosen the locknut(s) and turn the adjusting nut(s) in or out until the free play specification is met. Then tighten the locknut(s) in place.

WARNING

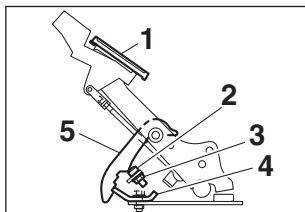
Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect the overall performance of the vehicle. Premature brake wear can result. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

4. Install the service lid.
5. Install the floor mat by installing the quick fasteners.

PARKING BRAKE RELEASE ADJUSTMENT

NOTICE

Before performing parking brake release adjustment, adjust brake pedal free play.



1. Parking brake pedal
2. Bolt
3. Locknut
4. Brake nail
5. Sector

1. Apply pressure to the parking brake pedal until the brake nail catches the first latch position on the sector.
2. Loosen the locknut and turn the bolt counter-clockwise until it contacts the sector.
3. Turn the bolt clockwise 1/3 of a turn (120 degrees), then tighten locknut.

MAINTENANCE AND ADJUSTMENT

HEADLIGHTS

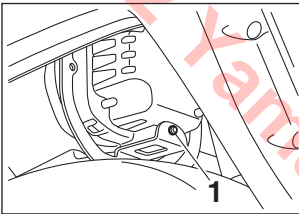
This model is equipped with LED-type headlights. If a headlight does not come on, check the fuses and then have a Yamaha dealer check the vehicle.

ADJUSTING A HEADLIGHT

NOTICE

It is recommended to have the headlight adjustment performed by a Yamaha dealer.

Using a Phillips head screwdriver, turn the adjusting screw. Turning the screw clockwise will lower the beam and turning the screw counterclockwise will raise the beam.



1. Adjusting screw

STORAGE

Perform the following preparations when storing your utility vehicle for extended periods of time:

TIP

Turn the main switch to the “OFF” position, remove key, and store key in a safe place.

FUEL

WARNING

Gasoline and its vapors are highly flammable and explosive. To avoid fire or explosions and reduce the risk of injury, follow these instructions.

- Do not smoke when draining fuel and keep away from sparks, flames, or other sources of ignition.
- Stop engine and allow it to cool for several minutes before draining fuel.
- Drain fuel in a well-ventilated area.
- Take care not to spill gasoline. If gasoline spills, wipe it up immediately with dry rags. Always dispose of gasoline-soaked rags properly.
- Tighten the filler cap securely after checking fuel level to avoid leaking.
- If you inhale a lot of gasoline vapor, or get gasoline in your eyes, get immediate medical attention.
- If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.

1. Fill the fuel tank with fresh fuel and add the specified amount of Fuel Med RX, which is available from your Yamaha dealer, or equivalent product.
2. Operate the vehicle for at least five minutes to distribute treated fuel through the fuel system.

Specified amount:

7.5 cc of stabilizer for each liter of fuel (1 oz. of stabilizer for each gallon of fuel)

TIP

Use of fuel stabilizer and conditioner eliminates the need to drain the fuel system. Consult a Yamaha dealer if the fuel system needs to be drained instead.

ENGINE PREPARATION

With the key removed and the spark plug lead disconnected, turn the clutch by hand until compression is felt. This puts the valves in the closed position.

CHASSIS PREPARATION

1. Verify the tire pressure is set to:
 - Front: 137 kPa (1.40 kgf/cm², 20 psi)
 - Rear: 137 kPa (1.40 kgf/cm², 20 psi)
2. Clean exterior of the utility vehicle and apply a rust inhibitor.
3. Cover the utility vehicle with a breathable cover and store it in a dry, well-ventilated area.

BATTERY PREPARATION

1. Remove the battery from the utility vehicle and store it in a cool, dry place that stays between 0°C (32°F) and 30°C (90°F).
2. Have the battery recharged every 60–90 days to keep it fully charged. The battery must be kept fully charged to avoid damage.
3. Batteries like the one supplied with your vehicle normally do not require you to check the water level inside the battery for the one-year warranty period provided by the manufacturer.

NOTICE

Do not allow cleaning solution to enter battery cells. Serious battery damage can result.

4. Clean the top of the battery with a solution of baking soda and water, as necessary, to remove corrosion.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Dimensions:		
Overall length	2910 mm (114.5 in)	3115 mm (122.6 in)
Overall width	1360 mm (53.5 in)	
Overall height (steering height)	1290 mm (50.8 in)	
Overall height (sun top height)	1880 mm (74.0 in)	
Height of floor	385 mm (15.2 in)	
Wheelbase	1685 mm (66.3 in)	1965 mm (77.4 in)
Tread:		
Front	1040 mm (40.9 in)	1050 mm (41.3 in)
Rear	1050 mm (41.3 in)	
Cargo bed size:		
Overall length	845 mm (33.2 in)	1045 mm (41.1 in)
Overall width	1170 mm (45.9 in)	
Overall height	300 mm (11.8 in)	
Ground clearance	150 mm (5.9 in)	
Weight:		
Curb weight (With Battery, Oil & Gasoline)	442 kg (973 lb)	473 kg (1042 lb)
Curb weight (With Sun top, W/S, Battery, Oil & Gasoline)	470 kg (1036 lb)	501 kg (1105 lb)
Performance:		
Factory speed setting	28.0 km/h (17.5 mph)	
Maximum speed	31.4 km/h (19.5 mph)	
Minimum turning radius	3.5 m (11.4 ft)	4.0 m (13.1 ft)
Hill climbing capacity	20°	15°
Seating capacity	One occupant per seat	
Vehicle combination rated capacity	363 kg (800 lb)	680 kg (1500 lb)
Occupant capacity	181 kg (400 lb)	
Maximum cargo bed capacity	136 kg (300 lb)	363 kg (800 lb)
Maximum tongue weight	45 kg (100 lb)	68 kg (150 lb)

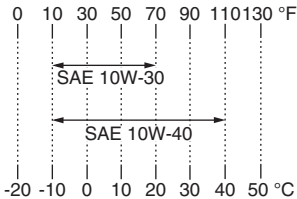
SPECIFICATIONS

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Maximum towing capacity	363 kg (800 lb)	680 kg (1500 lb)
Vehicle rated capacity	317 kg (700 lb)	544 kg (1200 lb)
Gross vehicle weight rating	787 kg (1735 lb)	1045 kg (2303 lb)
Maximum gross combination weight rating	832 kg (1835 lb)	1181 kg (2603 lb)
Fuel tank capacity:	20 L (5.2 US gal)	

ENGINE

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Description:		
Engine type	4-stroke, Gasoline, 60° incline OHV	
Number of cylinders	Single	
Displacement	402 cm ³	
Bore × stroke	85 × 70.8 mm (3.30 × 2.79 in)	
Compression ratio	8.2:1	
Output / Gross	10.63 kw (14.25 hp) / 3600 rpm	
Output / Net	9.45 kw (12.67 hp) / 3600 rpm	
Cooling system	Forced air-cooled	
Starting system	Electric-Starter/Generator	
Ignition system	TCI	
Spark plug type	BPR4ES	
Spark plug gap	0.7–0.8 mm (0.028–0.031 in)	
Lubrication system	Splash-style positive oil lubrication	
Recommended oil brand		
Available oil grade	API SE type or higher JASO MA or MB	

SPECIFICATIONS

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Available viscosity index	10W-30 or 10W-40	
		
Engine oil capacity	1.10 L (1.16 US qt)	

TRANSMISSION

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Transmission:		
Type	V-belt automatic centrifugal engagement	
V-belt width and outer line length	31.0 × 1010 mm (1.22 × 39.75 in)	
V-belt wear limit	28.0 mm (1.10 in)	
Governor:		
Type	Oil bath flyweight	
Differential/reduction gear	Secondary reduction system helical gear Secondary reduction ratio: Forward 11.48:1; Reverse 15.38:1 Differential type bevel gear Lubricant/capacity SAE 80W-90 or SAE 90 gear oil/400 cc (400 mL, 0.42 US qt)	

BATTERIES

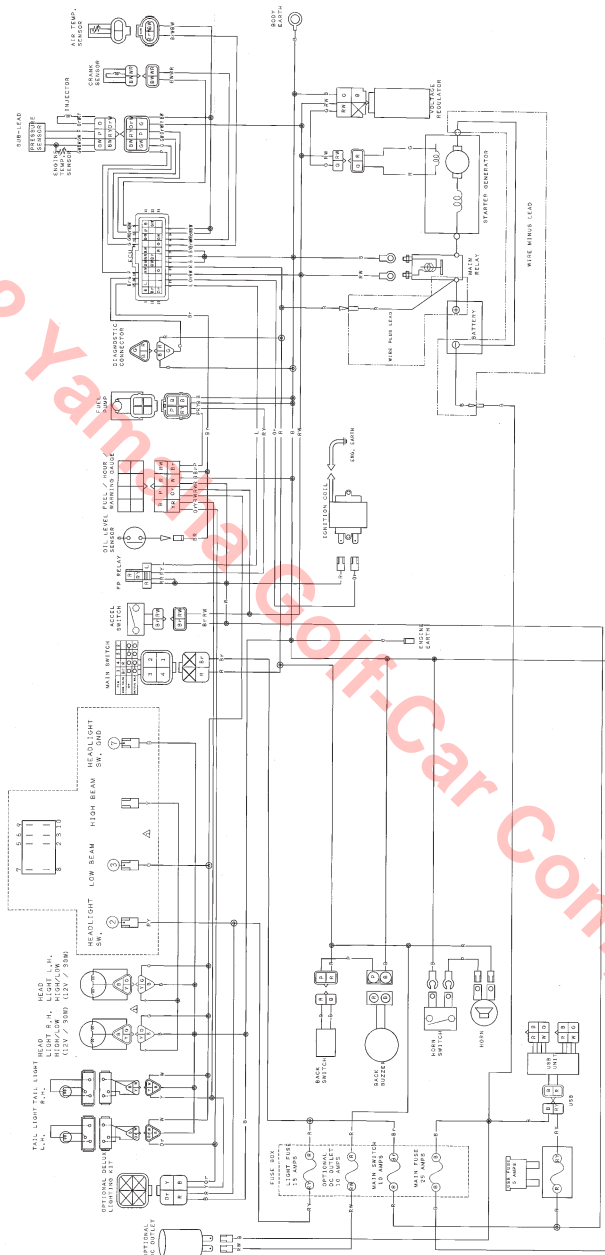
Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Battery	BCI group 24, RC: minimum 70 min CCA: minimum 440A	

CHASSIS

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Suspension:		
Front	Independent (oil-over strut type)	
Rear	Pivoted trailing arm (mono-link)	
Lighting:		
Headlight	LED	
Steering system:		
Type	Rack and Pinion	
Steering angle (L.H.)	1.85 turn	
Steering angle (R.H.)	1.85 turn	
Brakes:		
Brake system	Mechanical drum brake on each rear wheel with self- adjusters	Mechanical drum brake on each wheel with self- adjusters
Type of brake	Dual internal expanding shoe Leading/ trailing shoes (self-adjusting)	
Brake pedal free play linkage adjustment	50–55 mm (1.97–2.17 in)	
Parking brake:		
Type	Foot type; parking brake with automatic release.	
Wheel:		
Tire size: (Dia. [in]) × (Width [in]) - (Rim size [in]) / Ply rating)		
Front	23 × 10.50-12 / 4 PR	
Rear	23 × 10.50-12 / 4 PR	
Rim size: (Dia. [in]) × (Width [in]) (Offset [mm])	12 × 7.0 +25	

SPECIFICATIONS

Items	YUM1A UMAX RALLY	YUM2A UMAX RALLY
Tire pressure:		
Recommended:		
Front	137 kPa (1.40 kgf/cm ² , 20 psi)	
Rear	137 kPa (1.40 kgf/cm ² , 20 psi)	
Minimum:		
Front	124 kPa (1.26 kgf/cm ² , 18 psi)	
Rear	124 kPa (1.26 kgf/cm ² , 18 psi)	



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