



OWNER'S / OPERATOR'S MANUAL



READ THIS MANUAL CAREFULLY!
It contains important safety information.

YDRA

ADVENTURER SPORT 2+2 VEHICLE

 WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

YAMAHA

LIT-CALIF-65-01

INTRODUCTION

Congratulations on your purchase of a Yamaha Adventurer Sport 2+2 Vehicle. This manual contains information you will need for proper operation, maintenance, and care of your sport 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 sport vehicle, please consult a Yamaha dealer.

Yamaha Motor Corporation USA

**YDRA Adventurer Sport 2+2 Vehicle
Owner's/Operator's Manual**

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Motor Corporation USA
1st edition**

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JP0-F8199-11

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 potentially 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 sport 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 sport 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 sport vehicle. This manual should be considered a permanent part of your sport vehicle and should remain with the sport vehicle when resold.

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WARRANTY

1

2-YEAR SPORT AND TRANSPORTATION VEHICLE LIMITED WARRANTY

Yamaha Golf-Car Company hereby warrants that any new Yamaha sport vehicle or any new Yamaha Golf-Car Company transportation or specialty vehicle purchased from an authorized Yamaha golf car dealer in the United States will be free from defects in material and workmanship for two (2) years from date of purchase, subject to the stated limitations.

DURING THE PERIOD OF WARRANTY any authorized Yamaha golf car dealer 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.

GENERAL 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, or which makes the car serve a purpose other than use as a utility or transportation vehicle.
- Damage due to improper transportation.
- Acts of God, such as lightning, hail damage, flooding, fire, etc.

WARRANTY COVERAGE:

Year 1: The first year of warranty shall cover the entire vehicle except for the Specific Exclusions below.

Year 2: The second year of the warranty covers only the electric motor, speed controller, battery charger, and transaxle on electric powered vehicles and the engine, clutch system (except drive belt), and transaxle on gasoline powered vehicles.

SPECIFIC EXCLUSIONS: Specific exclusions from this warranty shall include any parts replaced due to normal wear or routine maintenance, including oil and air filter elements, tire wear, spark plugs, starter and clutch drive belts. Any charges incurred in transporting a vehicle or charger to and from an authorized Yamaha golf car dealer for service or in performing field service are also excluded from this warranty. Also excluded are electric car batteries, which are covered under a separate warranty.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to:

- Operate and maintain the vehicle and charger as specified in the appropriate Owner's/Operator's Manual;

- Give notice to an authorized Yamaha golf car dealer of any and all apparent defects within ten (10) days after discovery, and make the vehicle or charger available at that time for inspection and repairs by the dealer's authorized representative.

EMISSION CONTROL SYSTEM WARRANTY (GAS CAR ONLY)

Yamaha Golf-Car Company, U.S.A. also warrants to the ultimate purchaser of each engine 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 period listed immediately below. 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.

2 years from original purchase date

Questions concerning this warranty? Contact
Yamaha at:

Yamaha Motor Corporation, Customer Relations
1-800-962-7926

powerproductsemissionwarranty@yamaha-motor.com

YAMAHA GOLF-CAR COMPANY MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES 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 GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.

Yamaha Motor Corporation, USA
Kennesaw, Georgia 30144

EFFECTIVE DATE: 6/1/15

LIT-13710-U3-15

WARRANTY

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

1

The California Air Resources Board and Yamaha Golf-Car Company are pleased to explain the emissions control system warranty on your 2010 and later small off-road engine (SORE) vehicle. In California, new SORE vehicles must be designed, built and equipped to meet the State's stringent anti-smog standards. Yamaha Golf-Car Company must warrant the EECS on your SORE vehicle for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your SORE vehicle.

Your EECS may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, Yamaha Golf-Car Company will repair your SORE vehicle at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This emissions control system is warranted for two years. If any emission-related part on your equipment is defective, the part will be repaired or replaced by Yamaha Golf-Car Company.

OWNER'S WARRANTY RESPONSIBILITIES:

As the SORE vehicle owner, you are responsible for performance of the required maintenance listed in your owner's manual. Yamaha Golf-Car Company recommends that you retain all receipts covering maintenance on your SORE vehicle, but Yamaha Golf-Car Company cannot deny warranty solely for the lack of receipts.

As the SORE vehicle owner, you should however be aware that Yamaha Golf-Car Company may deny you warranty coverage if your SORE vehicle or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your SORE vehicle to Yamaha Golf-Car Company's distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact Yamaha Customer Relations at 800-962-7926.

GENERAL EMISSIONS WARRANTY COVERAGE:

Yamaha Golf-Car Company warrants to the ultimate purchaser and each subsequent purchaser that the SORE vehicle is:

Designed, built and equipped so as to conform with all applicable regulations; and

Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in Yamaha Golf-Car Company's application for certification.

The warranty period begins on the date the SORE vehicle is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

1. Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by Yamaha Golf-Car Company according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
2. Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
3. Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by Yamaha Golf-Car Company according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
4. Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
5. Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.
6. The SORE vehicle owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
7. Yamaha Golf-Car Company is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.

WARRANTY

1

8. Throughout the SORE vehicle warranty period stated above, Yamaha Golf-Car Company will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of Yamaha Golf-Car Company.
10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. Yamaha Golf-Car Company will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

WARRANTED PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if Yamaha Golf-Car Company demonstrates that the SORE vehicle has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts are covered:

1. Fuel Tank
2. Fuel Cap
3. Fuel Line
4. Fuel Line Fittings
5. Clamps
6. Control Valves
7. Control Solenoids
8. Electronic Controls
9. Control Cables
10. Control Linkages
11. Vapor Hoses
12. Carbon Canister
13. Canister Mounting Brackets

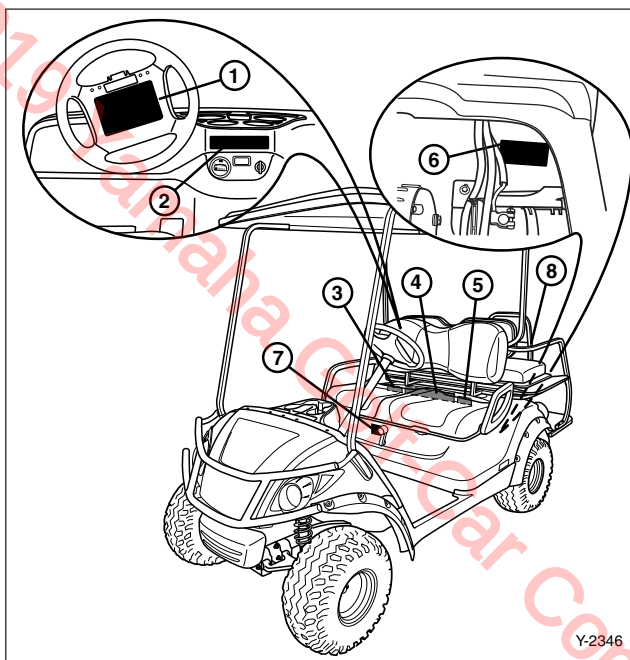
IMPORTANT LABELS

⚠ SAFETY AND INSTRUCTION LABELS

⚠ WARNING

Please read the following labels carefully before operating your sport vehicle, and promptly replace any labels which become damaged or removed. Death or serious personal injury can result from failing to read and comply with the safety instruction labels.

2



Y-2346

①

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- 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.
- 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 the 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 whenever 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.

YAMAHA

JPO-K7458-00

IMPORTANT LABELS

②

⚠ WARNING

To reduce the risk of accidents and injury or DEATH:

- Read the label located on the steering wheel before operation.
- Operate only when authorized and only in designated areas.
- Operate under driver's seat only.
- This vehicle is restricted to 2 occupants per bench seat.
- Do not start vehicle until all occupants are seated.
- Remain fully seated and hold on when in motion.
- Keep entire body inside vehicle.
- Drive slowly in turns.

YAMAHA

OFF ▲ ON ▼



JCO-K7768-A0

- Drive slowly straight up and down slopes.
- Set parking brake before leaving vehicle.
- Turn main switch to "OFF" and remove key when not in use.
- Do not operate while under the influence of alcohol or drugs.

④

	⚠ 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. • Always use qualified personnel to dealer or qualified personnel. YAMAHA	⚠ AVERTISSEMENT L'ESSENCE EST HAUTEMENT INFLAMMABLE ET EXPLOSIVE. UN INCENDIE OU UNE EXPLOSION POURRAIENT PROVOQUER DE GRAVES BLESSURES OU LA MORT. • Éloigner toute source de chaleur, d'étincelles et de flammes nues du réservoir et des conduites de carburant. • Ne pas ajouter de carburant pendant que le moteur tourne ou qu'il est chaud. • Ne pas modifier le circuit d'alimentation. • Ne pas effectuer de travaux sur le concessionnaire ou par du personnel qualifié. JMY-46297-01	N432 
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③

This spark ignition system meets all requirements of the Canadian Interference Causing Equipment Regulations.
Ce système d'allumage par étincelle de véhicule respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

YAMAHA

JNH-H537-00

Y-1606

G.V.W.: 772.5 kg

CURB WEIGHT: 410.5 kg

VEHICLE LOAD CAPACITY: 181 kg PER SEAT

NOMINAL SYSTEM VOLTAGE: 12V

This vehicle complies to SAE-J-2258 2010

JPO-F4236-00

IMPORTANT LABELS

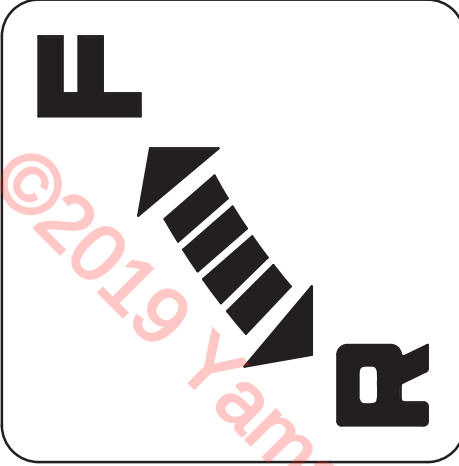
EMISSION CONTROL INFORMATION
YAMAHA MOTOR CO., LTD.

THIS EQUIPMENT CONFORMS TO 2010 CALIFORNIA EXHAUST EMISSION REGULATIONS AND MEETS U.S. EPA EVAP STANDARDS FOR SMALL OFF-ROAD ENGINES. THIS ENGINE CONFORMS TO PHASE 3 U.S. EPA REGULATIONS FOR SMALL OFF-ROAD ENGINES.

EF-1BYMKS-3572EG
DISPLACEMENT : 357cc
EMISSION CONTROL SYSTEM : TBI
EVAPORATIVE CODE CARB : C0YAK33A
EVAPORATIVE CODE EPA : BYMKNF-EQ33A
ON UNLEADED GASOLINE
ENGINE OIL : SAE 10W-30
MAINTENANCE SPECIFICATIONS
IGNITION TIMING : 27 BTDC
SPARK PLUG GAP : 0.28-0.31
NO OTHER ADJUSTMENTS NEEDED

The air index of this engine is 3

Notes: The lower the Air Index, the less Pollution
This engine is certified to be emissions compliant for the following use:
[] Moderate (125 hours) [] Intermediate (250 hours) [X] Extended (1000 hours)
Check owner's manual for further details. JCB-F7181-01



Y-1610

WARNING

To reduce the risk of accidents and injury or death:

CARRYING PASSENGERS

- Do not allow more than 2 passengers in this seat.
- Maximum load in seat: 181 kg (400 lb)
- Remain fully seated and hold on to the hand holds when in motion.
- Keep entire body inside vehicle.
- Do not allow children to ride unsupervised in this seat.

CARRYING CARGO

- When seat is flipped down, do not carry passengers in cargo area.
- Maximum load in cargo area (including footrest and bagwell): 110 kg (250 lb)
- 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.

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

- Do not fill portable fuel container (gas can) in vehicle.
- 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 vehicle.

Improper tire pressure or overloading can cause loss of control, reduce the risk of accidents and injury or death.

- Operating tire pressure: set with tires cold.
- Recommended: 84 kPa, 12 psi / 97 kPa, 14 psi
- Minimum: 70 kPa, 10 psi / 84 kPa, 12 psi
- Never set tire pressure below minimum. Tire may delodge from rim.

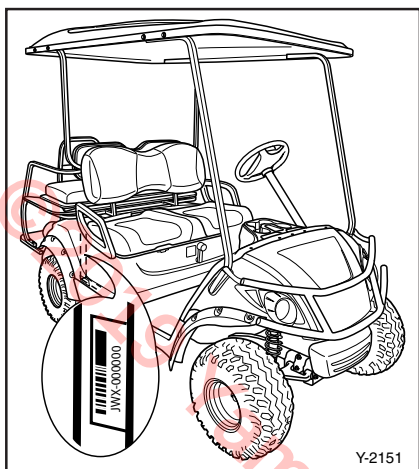
Keep hands, body, other persons, away from pinch points on surface below when flipping the seat.

Front
Rear

YAMAHA
JPC-85483-00

IMPORTANT LABELS

2



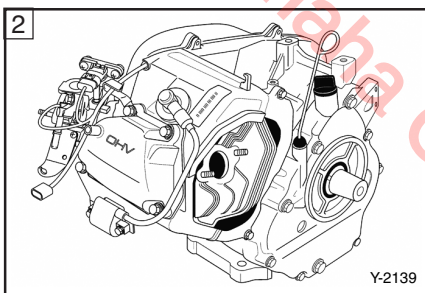
SPORT VEHICLE SERIAL NUMBER

The sport 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 Golf-Car Company dealer.

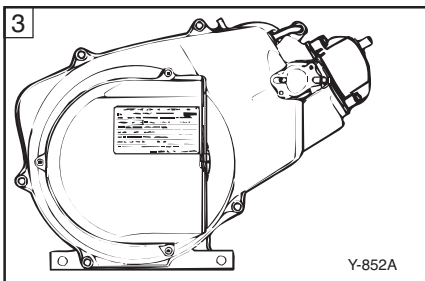
2



The engine serial number ② is affixed in the location shown.

③ Engine Information

3



IMPORTANT ENGINE INFORMATION				YAMAHA	
ENGINE FAMILY : *****					
E M REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.					
DISPLACEMENT:	*** cm ³	VALVE LASH:*** IN	**_**	EX:	**_**
IGNITION TIMING & IDLE MIXTURE		NO OTHER ADJUSTMENTS NEEDED			
IDLE SPEED:	****	rpm AT NO LOAD			
FUEL: THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE					
ENGINE OIL:	SAE 10W-30	TYPE	SD		
THIS ENGINE MEETS ***** CALIFORNIA EMISSION REGULATIONS FOR OFF-ROAD ENGINES. THIS ENGINE CONFORMS TO ***** U.S. EPA REGULATIONS FOR SMALL HIGH-SPEED ENGINES.					
YAMAHA MOTOR CO., LTD.					

Y-851a



SAFETY INFORMATION

Yamaha sport 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 SPORT VEHICLE

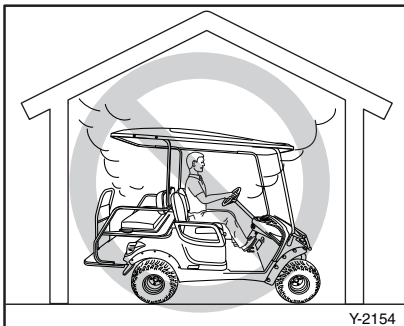
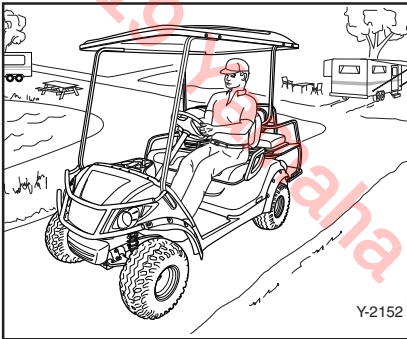
- Read this Owner's/Operator's manual and all safety and instruction labels on the sport vehicle before operating.
- Perform the pre-operation checks found in Section 5 of this manual.
- This vehicle is recommended only for operators 16 and older with a valid motor vehicle license. Adults must supervise use by minors. Check state laws for minimum age requirements.
- Do not allow more than two occupants per seat. This sport vehicle is restricted to four 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 back-rest.
- Never carry passengers on the cargo bed.
- Do not operate the sport vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a sport 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.





SAFETY INFORMATION

3



- Do not operate the sport vehicle on public streets, roads or highways unless allowed by law or the local regulating authority.
- This vehicle may go faster than the intended speed for campground pathways. Do not use on such pathways without specific permission from campground management.
- 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.

WHILE OPERATING THE SPORT VEHICLE

- Keep your entire body inside the sport vehicle, remain seated and hold on when the vehicle is in motion.
- Do not start the sport 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.



SAFETY INFORMATION

- 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 15 cm (6 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.
- Do not run the engine indoors. Exhaust gas is poisonous and could result in carbon monoxide poisoning.

CARRYING PASSENGERS

- This vehicle is designed to carry the driver and up to three passengers. When a seat is flipped down, do not carry passengers in the cargo area.
- Do not allow more than 2 people in each bench seat.
- Maximum load per seat: 181 kg (400 lb)
- Passengers must remain fully seated and hold on to the handrails when in motion.
- Do not allow children to ride unsupervised in the rear bench seat.



SAFETY INFORMATION

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 sport vehicle which has accessories.

- Choose only accessories designed for your sport 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 sport vehicle.
- Do not mount an accessory where it could interfere with your ability to control the sport 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 sport vehicle with accessories. The sport vehicle may handle differently than it does without accessories.



SAFETY INFORMATION

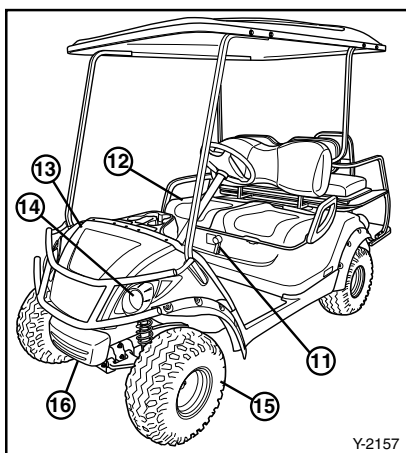
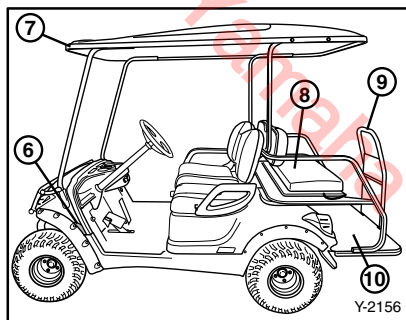
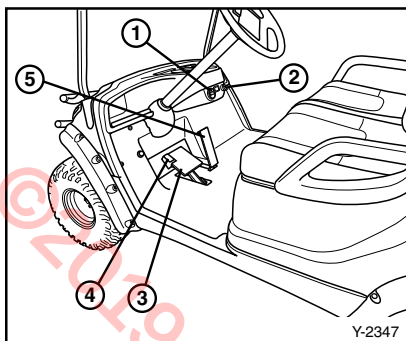
Loading

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

- Never exceed the weight limits shown on page 9-1. An overloaded sport vehicle can be unstable.
- Capacity for cargo area (including footrest and bagwell: 110 kg (250 lb))
- Cargo should be as far forward on the cargo area 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.
- 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 on the cargo bed.
- 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 sport vehicle.

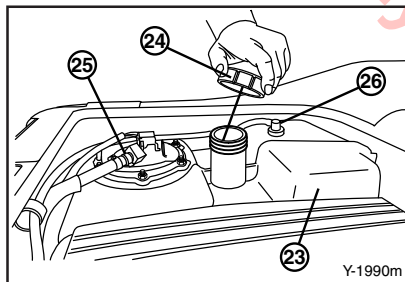
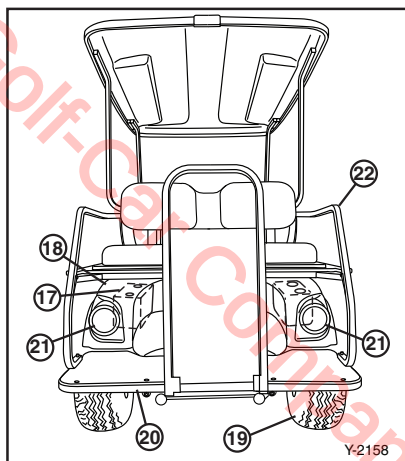
CONTROLS

4

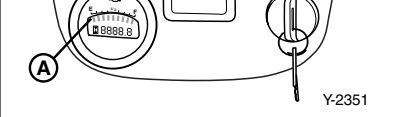


FEATURES

- ① Engine/oil warning light/fuel gauge/hour meter
- ② Main/Light switch
- ③ Brake pedal
- ④ Parking brake pedal
- ⑤ Accelerator pedal
- ⑥ Reflector
- ⑦ Sun roof
- ⑧ Rear seat
- ⑨ Rear handrail
- ⑩ Rear footrest
- ⑪ Drive select lever
- ⑫ Front seat
- ⑬ Front body
- ⑭ Headlights
- ⑮ Front tire
- ⑯ Front bumper
- ⑰ Battery
- ⑱ Rear body
- ⑲ Rear tire
- ⑳ Rear bumper
- ㉑ Taillights
- ㉒ Side handrail
- ㉓ Fuel tank
- ㉔ Fuel cap
- ㉕ E.F.I. fuel pump
- ㉖ Fuel tank vent



CONTROLS



MAIN SWITCH

The main switch controls the following items:

“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 sport vehicle can be driven.

“ON” WITH LIGHTS

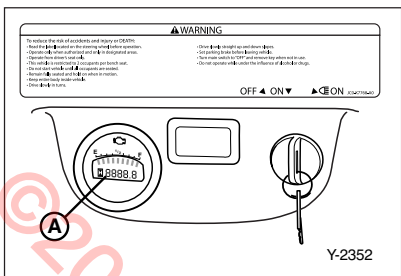
The functions for this position are the same as for the ON position; however, this position will activate the headlights and taillights.

FUEL GAUGE – OPTIONAL ACCESSORY

The fuel gauge displays the fuel level in the fuel tank. The fuel gauge will only work when the key is in the ON position.

Ⓐ Fuel gauge

CONTROLS



HOUR METER

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

Ⓐ Hour meter

ENGINE/OIL WARNING LIGHT/FUEL GAUGE/HOUR METER

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

NOTICE

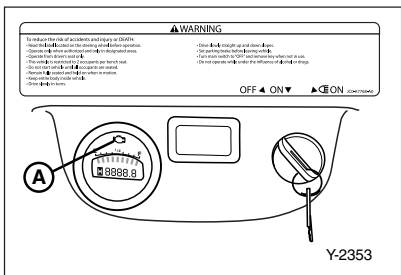
If the light comes on, stop the engine, check the engine oil level and add oil as necessary. (See page 5-3.)

When the engine/oil warning light/fuel gauge/hour meter is flashing while the key is on, there may be a problem with the fuel injection system. This may affect performance, emissions and fuel economy or cause damage to the fuel injection system or engine.

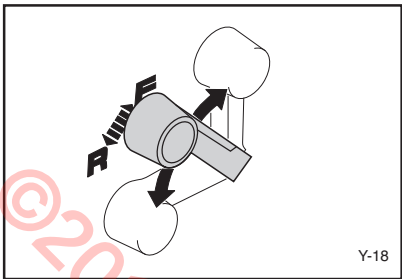
NOTICE

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

Ⓐ Engine/oil warning light



CONTROLS

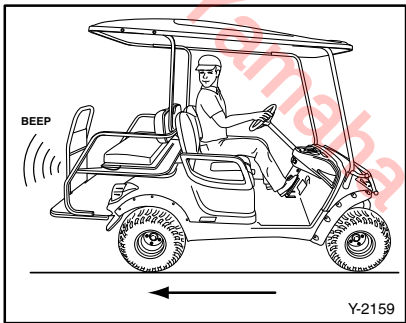


DRIVE SELECT LEVER

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

Lever Position	Car Movement
F	FORWARD
R	REVERSE

4



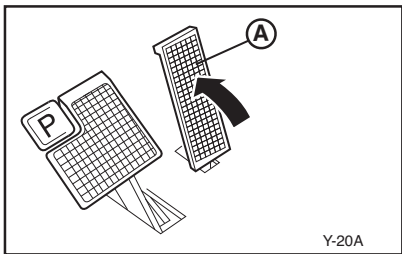
TIP

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

ACCELERATOR PEDAL

The accelerator pedal controls the sport vehicle's speed.

Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease

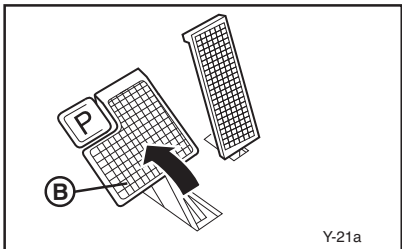


Ⓐ Accelerator pedal

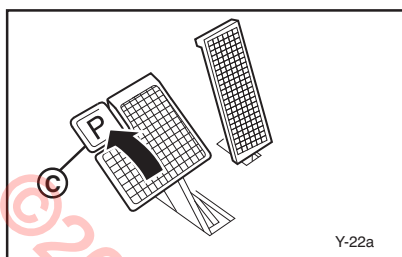
BRAKE PEDAL

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

Ⓑ Brake pedal



CONTROLS



PARKING BRAKE PEDAL

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

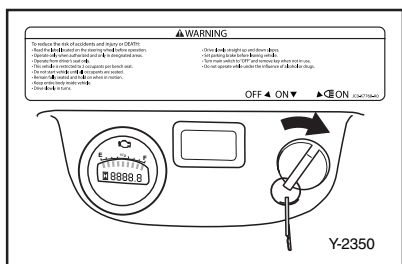
© Parking brake pedal

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



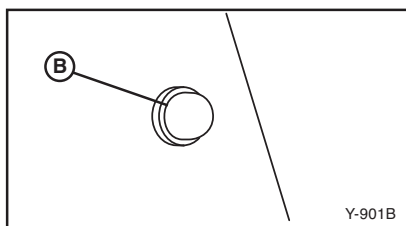
HEADLIGHT/TAILLIGHT ON POSITION

Turn the main switch all the way to the right to the second ON position. This will activate the headlights and taillights.

HORN SWITCH

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

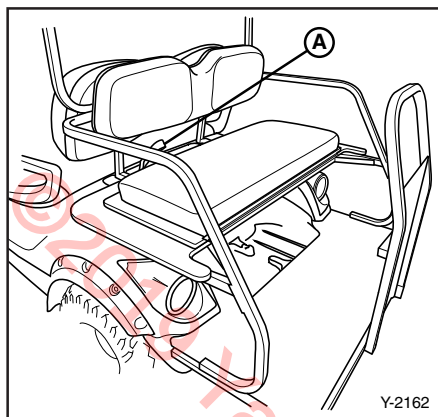
Ⓑ Horn Switch



TIP

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

CONTROLS

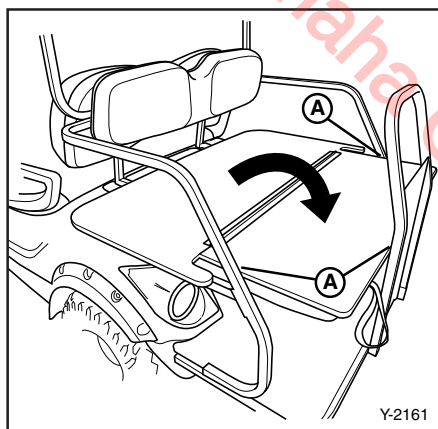


REAR SEAT

The rear seat is designed to carry a maximum of two passengers. All passengers should remain inside the sport vehicle, remain seated with their feet on the rear footrest and hold onto the handrails while the vehicle is in motion.

The rear seat can be folded down to a cargo bed. Grab the strap and lift up the seat and fold it to the rear of the vehicle.

(A) Strap



⚠ WARNING

There are several pinch points for the rear seat when folding it down. Use care when folding the seat down so nothing is in the area of these pinch points.

(A) Pinch points

⚠ WARNING

Never allow passengers to ride on the cargo bed when it is folded down. There is no seating and passengers can easily fall off. Death or serious personal injury can result in failure to comply.

Always make sure your cargo is secure when using the cargo bed. Tie the load down with cords or straps where needed.

PRE-OPERATION CHECKS

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

⚠ WARNING

Failure to inspect or maintain your vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem. If a problem cannot be corrected by the procedure in this manual, have the vehicle inspected by a Yamaha dealer.

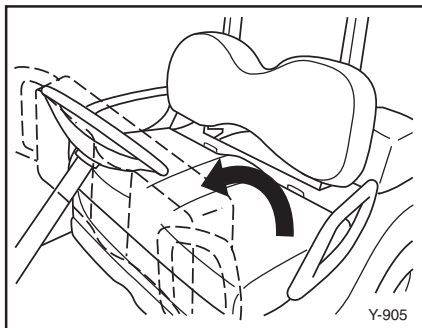
PRE-OPERATION CHECKLIST

Before each use check the following:

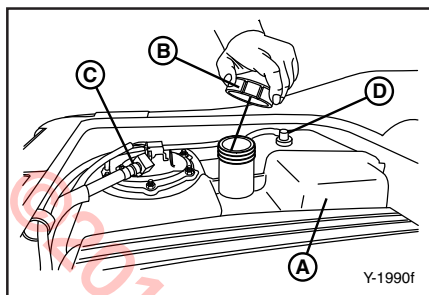
- ✓ Fuel system
- ✓ Engine oil level
- ✓ Battery
- ✓ Tire condition
- ✓ Steering system
- ✓ Reverse alarm
- ✓ Pedal operation
- ✓ Body and chassis
- ✓ Headlights/Taillights

SEAT

Open the seat for checking and servicing.



PRE-OPERATION CHECKS



FUEL SYSTEM

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

- Ⓐ Fuel tank
- Ⓑ Fuel cap
- Ⓒ E.F.I. fuel pump
- Ⓓ Fuel tank vent

⚠ 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.

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 until a clicking sound is heard.

⚠ 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.

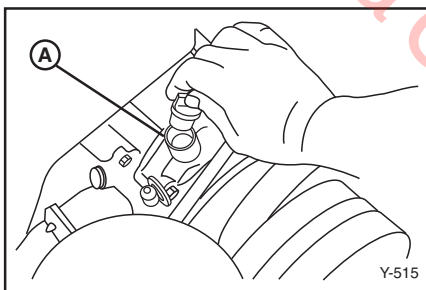
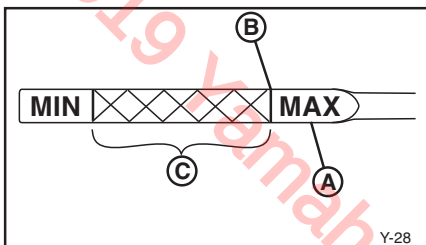
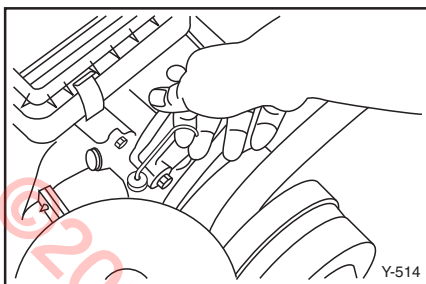
If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.

Recommended fuel:
Unleaded gasoline

Fuel tank capacity:
22.0 L (5.8 US gal)

Gasoline-based fuels containing more than 10% ethanol are not recommended.

PRE-OPERATION CHECKS



Recommended oil:
YAMALUBE 4-cycle oil or 10W30

Engine oil capacity:
1.0 L, 1000 cc
(1.0 US qt)

Oil change quantity:
1.0 L, 1000 cc
(1.0 US qt)

NOTICE

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

ENGINE OIL

With the sport 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).

- Ⓐ Oil level dipstick
- Ⓑ Maximum oil level
- Ⓒ Safe operating range

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.

- Ⓐ Oil filler hole

NOTICE

- 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.

TIP

The distance between the dipstick marks represents approx. 1/2 L (1/2 US qt) of oil.

TIP

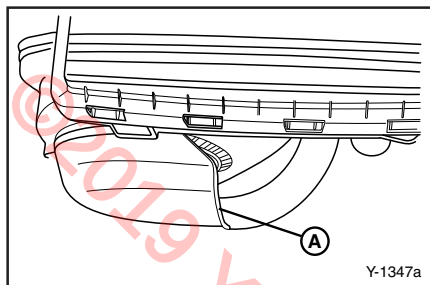
Recommended engine oil classification: API Service SE, SF, or SG. Engine oils labeled "Energy Conserving II" are recommended.

PRE-OPERATION CHECKS

Engine Cooling Inlet Duct

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

Ⓐ Engine cooling inlet duct



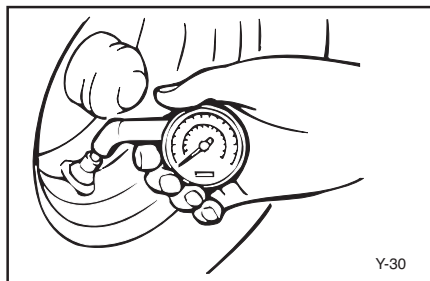
BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. Also, check that the battery cap is not missing to prevent battery acid from spilling from the battery. Check the battery terminals for corrosion.

⚠ 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.

5



TIRE CONDITION

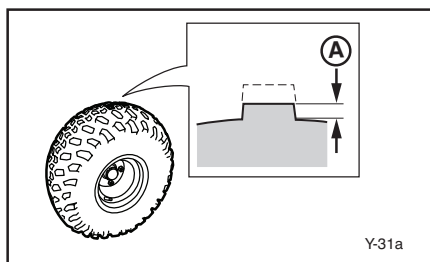
Tire Air Pressure

Check the tire air pressure before operating the sport vehicle.

Tire pressure:

Front: 152 kPa (22 psi)

Rear: 152 kPa (22 psi)

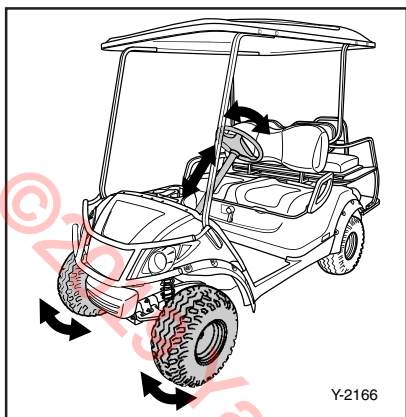


Tire Wear Limit

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

Ⓐ Wear limit

PRE-OPERATION CHECKS



STEERING SYSTEM

Check the steering system for excessive freeplay 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 freeplay, or hear rattling sounds which may indicate loose steering components, consult a Yamaha dealer.

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

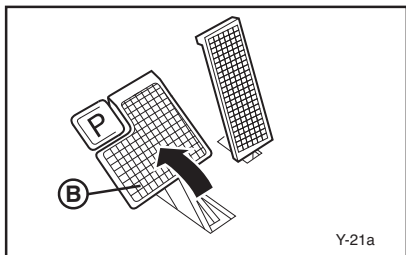
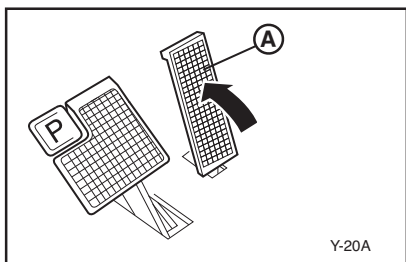
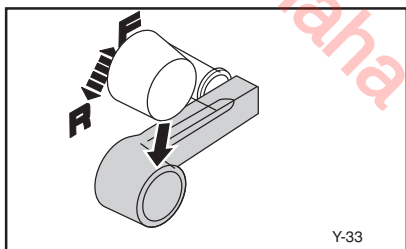
With the main switch in the “OFF” position, make sure the accelerator pedal operates smoothly.

(A) Accelerator pedal

Brake Pedal

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

(B) Brake pedal



PRE-OPERATION CHECKS

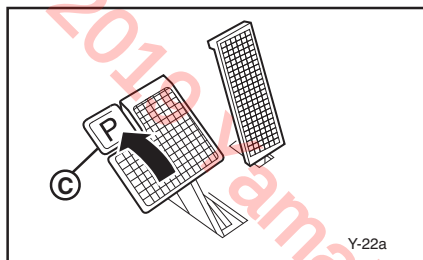
WARNING

Consult your Yamaha dealer before using your sport vehicle if you suspect brake problems.

Parking Brake Pedal

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

© Parking brake pedal



TIP

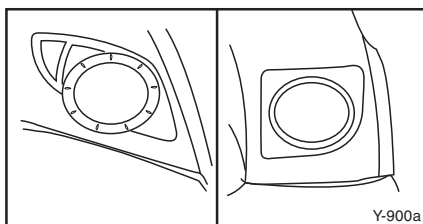
Release the parking brake by depressing the accelerator pedal.

Headlights/Taillights

Ensure the headlights and taillights are operational.

WARNING

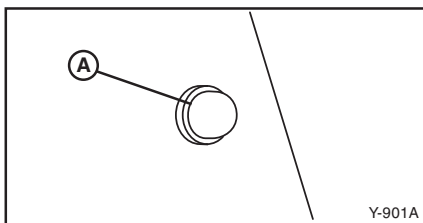
Never operate the sport vehicle at night or during inclement weather without properly working headlights/taillights. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.



Horn Switch

Make sure the horn operates correctly.

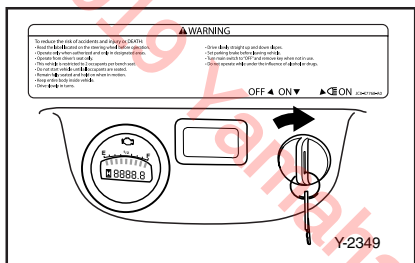
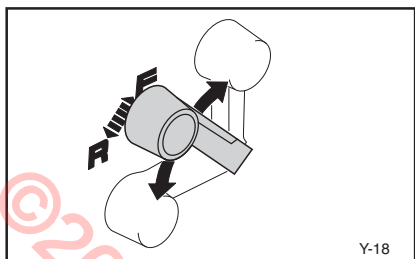
Ⓐ Horn Switch



BODY AND CHASSIS

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

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 sport vehicle is moving. Transmission damage can result.

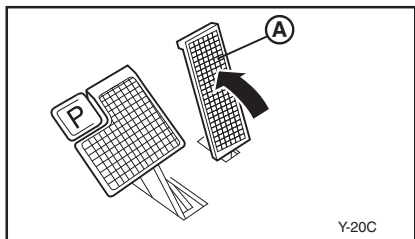
2. Turn the main switch to “ON.”

⚠ WARNING

Do not depress the accelerator pedal when turning on the main switch or the sport vehicle may suddenly start moving. 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 sport vehicle will start to move.

Ⓐ Accelerator pedal



TIP

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

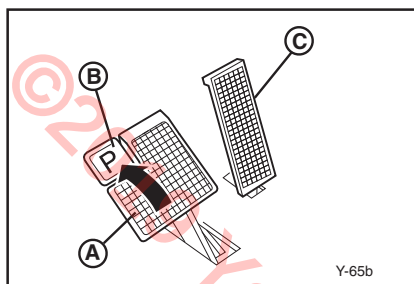
STOPPING

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

- (A) Brake pedal

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

- (B) Parking brake pedal



NOTICE

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

6

LOADING

MAXIMUM LOADING LIMIT

- Maximum Load per Seat:
181 kg (400 lb)
- Maximum Cargo Bed Capacity:
110 kg (250 lb)
- Gross Vehicle Weight:
772.5 kg (1,703 lb)

Cargo can change the stability and handling of a vehicle.

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

- Never exceed the weight limits shown. An overloaded vehicle can be unstable.
- Load cargo on the cargo bed as close to the center of the vehicle as possible to avoid tipping the vehicle.

OPERATION

- Cargo should be as far forward on 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.
- 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.
- 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 on 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 on cargo bed.

MAINTENANCE

PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your sport 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 machine servicing death or serious personal injury can result. When in doubt this work should be done by a Yamaha dealer or other qualified mechanic.

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

	Remarks	Daily Pre- Operation	20 hours 100 miles 160 kms (Every month)	125 hrs 600 mls 1000 kms (Every 6 months)	250 hrs 1200 mls 2000 kms (Every year)	500 hrs 2500 mls 4000 kms (Every 2 years)	1000 hrs 5000mls 8000 kms (Every 4 years)	Page
PRE-OP	Check engine oil	CS	CS	CS				5-3
	Check air cooling duct	CS	CS	CS	CS	CS	CS	*
	Check fuel lines for leakage	CS	CS	CS	CS	CS	CS	5-2
	Check fuel level	CS	CS	CS	CS	CS	CS	5-2
	Check for looseness and corrosion of battery terminals and hold downs	CS	CS	CS	CS	CS	CS	5-4
	Check brake pedal free play and adjust if necessary	CS	CA	CA	CA	CA	CA	7-12
	Check steering operation	CS	CS	CS	CS	CS		5-5
	Check tire pressure, tread depth, tire surface for damage	CS	CA	CA	CA	CA	CA	5-4
	Check body and chassis for damage	CS	CS	CS	CS	CS	CS	5-6
	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	5-5
EVERY MONTH	Check fuel filter for clogging		CS	CS	CS	CS	CS	*
	Check wear of drive belt		CS	CS	CS	CS	CS	7-7/ 7-8
	Check operation of Forward / Reverse shifting		CS	CS	CS	CS	CS	6-1
	Clean / Lube pedal control area		CL					*
EVERY 6 MONTHS	Wash pre-filter, check air cleaner element			S	S	S	S	7-6/ 7-7
	Check spark plug and plug cap condition** / Check compression			CS	CS	CS	CS	7-4
	Check shock absorbers for oil leaks and damaged springs			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

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

	Remarks	Daily Pre- Operation	20 hours 100 miles 160 kms (Every month)	125 hrs 600 mls 1000 kms (Every 6 months)	250 hrs 1200 mls 2000 kms (Every year)	500 hrs 2500 mls 4000 kms (Every 2 years)	1000 hrs 5000mls 8000 kms (Every 4 years)	Page
EVERY YEAR	Replace engine oil				R	R	R	7-5
	Grease primary and secondary clutch				L			*
	Adjust throttle cables,** check electronic fuel injection throttle shaft for wear**				CA	CA	CA	*
	Check starter V-belt for damage and tension				CS	CS	CS	*
	Check drive belt for slippage, wear or scratches				CS	CS	CS	7-7
	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 freeplay				CS	CS	CS	*
	Perform primary and secondary clutch maintenance: - Inspect sheaves for wear and damage - Inspect weights/rollers and bushings for wear (primary) - Inspect RAM shoes for wear (secondary) - Replace if necessary				CL	CL	CL	*
	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	7-10
	Check operation and adjust pedal stop if necessary				CA	CA	CA	*
EVERY 2 YEARS	Check brushes for wear and commutator for dirt					CS	S	*
EVERY 4 YEARS	Replace transaxle oil						R	*
	Replace fuel filter and fuel hoses						R	*
	Check tightness of cylinder head / Adjust valves						CA	*
	Inspect internal wet brake and replace pads if necessary						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

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.

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	Clean 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

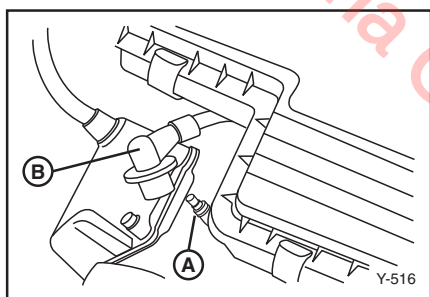
MAINTENANCE

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.

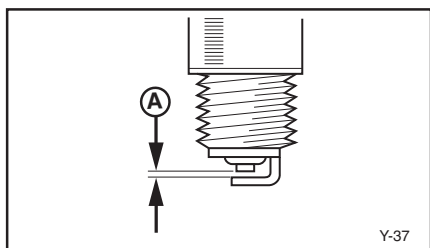


- (A) Spark plug
- (B) Spark plug cap

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:
BPR2ES

Spark plug gap:
0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)



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

Spark plug torque:
20 Nm, 2.0 m·kg
(14.5 ft·lb)

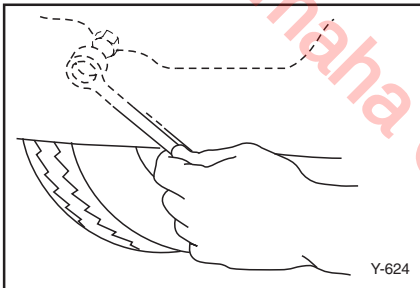
MAINTENANCE

Engine Oil Replacement

1. Warm up the engine for several minutes, place the sport vehicle on a level surface, then stop the engine.

⚠ 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.



2. Place an oil pan under the engine drain plug.
3. 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.

4. Install the drain plug, along with a new drain plug gasket, finger-tight before tightening to the following torque:

Drain plug torque:
31 Nm, 3.1 m·kg
(23 ft·lb)

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

TIP

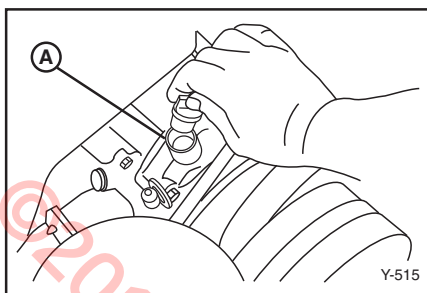
Recommended engine oil classification: API Service SE, SF, or SG. Engine oils labeled "Energy Conserving II" are recommended.

Recommended oil:
YAMALUBE 4-cycle oil or 10W30

Engine oil capacity:
1.0 L, 1000 cc
(1.0 US qt)

Oil change quantity:
1.0 L, 1000 cc
(1.0 US qt)

MAINTENANCE



Ⓐ Oil filler hole

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.

Air Filter

To remove the air filter elements:

1. Unlatch the air filter cover clips and remove cover.
 - Ⓐ Air filter cover clips
 - Ⓑ Air filter cover
2. Lift the air filter and pre-filter out of the air filter case.
 - Ⓒ Air filter
 - Ⓓ Pre-filter

NOTICE

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

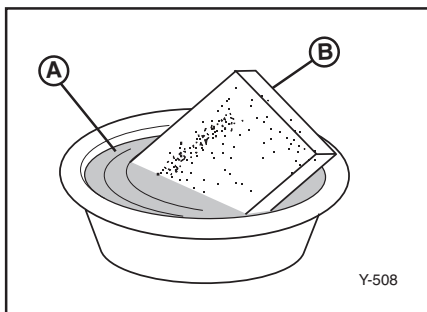
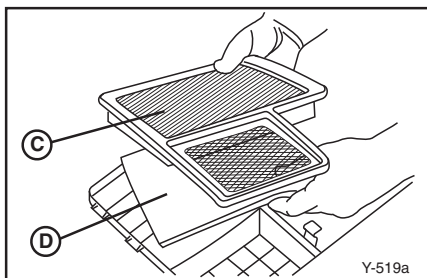
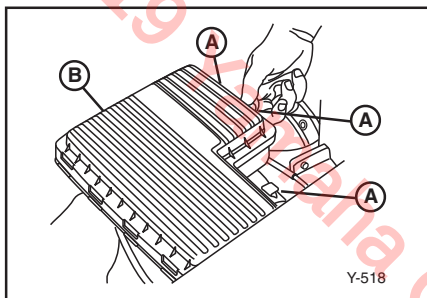
Inspection and cleaning:

3. Wash the foam pre-filter in soap and water. Rinse thoroughly with clean water and allow to air-dry.

NOTICE

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

- Ⓐ Soap and water
- Ⓑ Foam element



MAINTENANCE

4. Check the filter element. If damaged or dirty, replace it.
5. To replace 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:

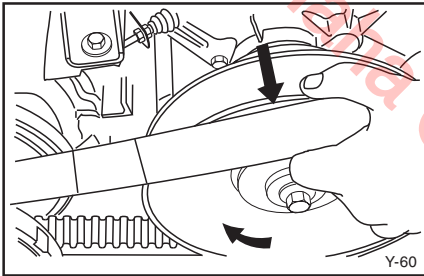
1. Set the drive select lever halfway between forward and reverse.
2. Pull up on the drive belt and push it outward over the edge of the secondary sheave.
3. Turn the secondary sheave clockwise and the drive belt will roll off the sheave.
4. Remove the drive belt from the primary sheave.

Inspection:

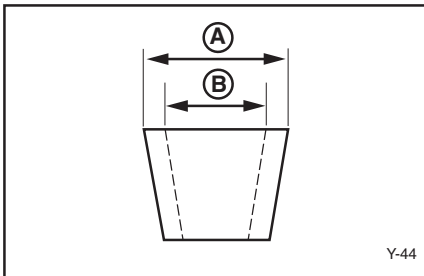
To inspect the drive belt, check for frayed edges or tears, and measure the drive belt against the following specification. If the belt shows excessive wear or damage, replace the belt with a new one.

- Ⓐ New: 31.0 mm (1.20 in.)
- Ⓑ Replace when belt reaches: 27.0 mm (1.06 in.)

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



Y-60



Y-44

MAINTENANCE

Clutch

Maintenance is required each year for proper drive operation. Refer to the Periodic Maintenance chart in this owner's manual.

Battery

The 12-volt battery that provides starting power to your gas car 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.

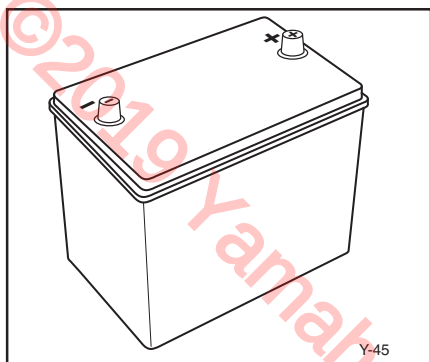
INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

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

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 safety instructions in this manual.

NOTICE

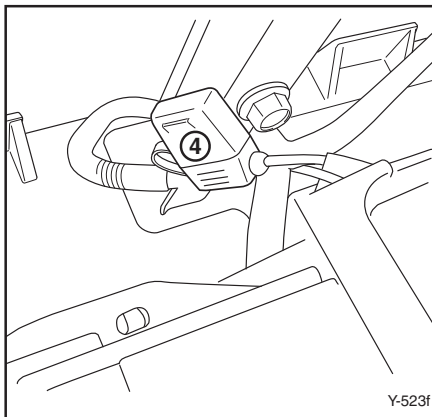
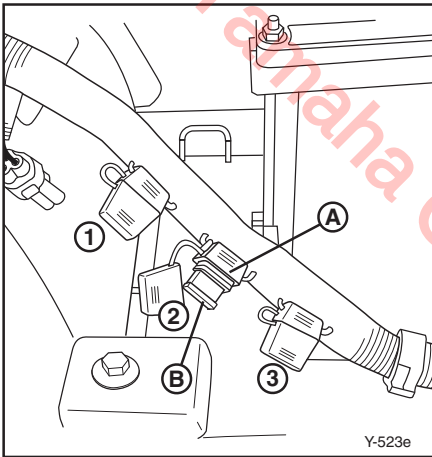
When replacing a fuse, be sure the main switch is turned off to prevent accidental short-circuiting and electrical system damage.

1. Locate the in-line fuse holder on the main wire harness adjacent to the tow switch.
2. Pull fuse holder cover off.
3. Pull fuse out, inspect and replace if necessary.

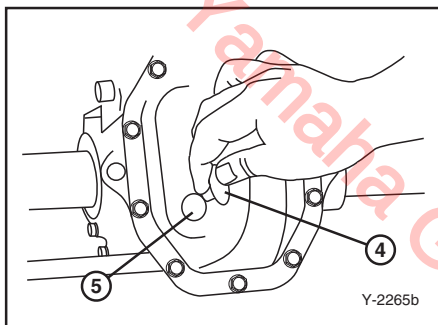
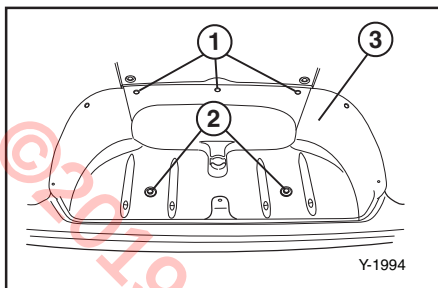
- (A) Fuse holder
(B) Fuse

Fuse Type:

- ① DC Outlet Fuse (10A), Blade Style
- ② Light Fuse (15A), Blade Style
- ③ Fuse (10A), Blade Style
- ④ 25 Amp, Blade Style (MAIN)
Fuse location off of negative battery terminal @ 15 cm (6 in.)



MAINTENANCE



Transaxle Oil

To check transaxle oil level:

1. Place the sport vehicle on a flat, level surface.
2. Remove seven plastic rivets ① and two bolts ②, and remove the bag holder insert ③.
3. Place an oil pan under the transaxle case.
4. Clean the area around the oil level plug ④ and then remove the plug.

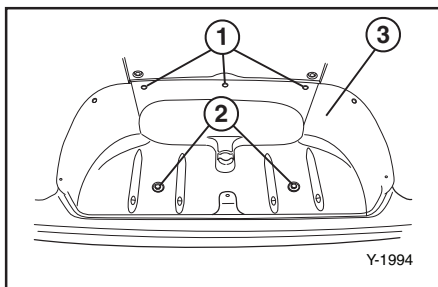
NOTICE

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

5. The oil level should be right at the bottom of the oil level plug hole ⑤ or just starting to flow out of the hole.
6. If needed, add SAE 90 gear oil until it starts to flow from the oil level plug hole.
7. Allow excess gear oil to flow out of the hole until it stops.
8. Install the oil level plug.
9. Install the bag holder insert ③ and secure with two bolts ② and seven plastic rivets ①.

TIP

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



MAINTENANCE

⚠ 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.

Wheel Replacement

To remove and install a wheel on your sport vehicle:

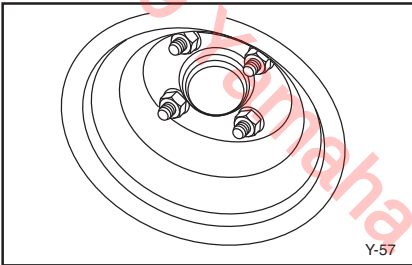
1. With the wheels blocked to prevent the sport vehicle from moving, loosen the wheel nuts.
2. Elevate the sport vehicle with a jack and remove the wheel nuts and the wheel.
3. Reverse the removal steps when installing the wheel.

Wheel nut tightening torque:
88 Nm, 8.8 m·kg (65 ft·lb)

Brake Adjustment

The brakes on your sport vehicle are self-adjusting.

Before you operate the sport vehicle, press down on the brake pedal several times to make sure the brakes are functioning properly.



MAINTENANCE

⚠ WARNING

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

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.

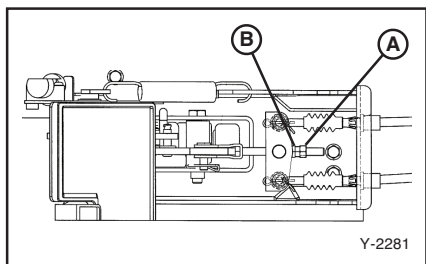
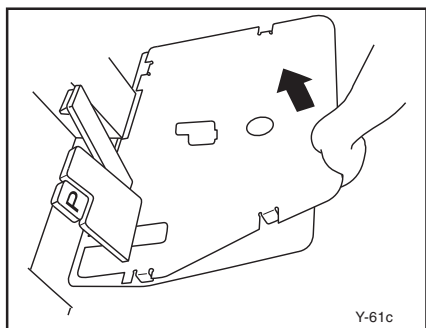
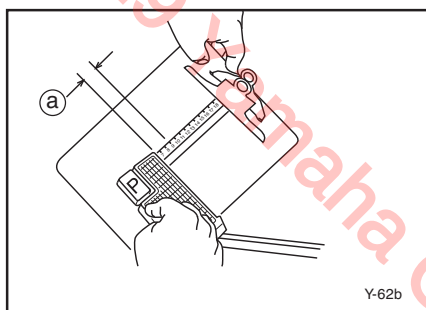
Brake pedal free play (a):
20-25 mm (0.79-0.98 in.)

To adjust the brake pedal free play:

1. Remove the floor mat and service lid from the floor of the sport vehicle.
2. If the free play distance needs adjusting, loosen the lock nut (A) and turn the adjusting nut (B) in or out until the free play specification is met. Then tighten the lock nut in place.

⚠ WARNING

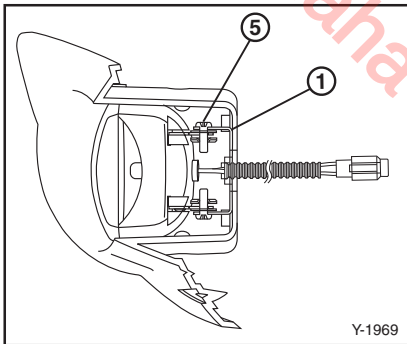
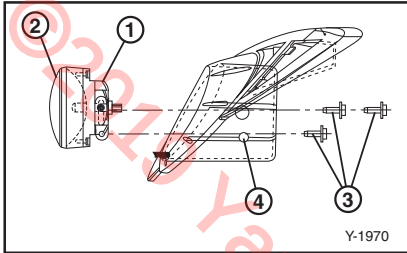
Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect overall performance of the vehicle. Premature brake wear can result. Death or serious personal injury can result from failing to comply with the warning labels in this manual.



MAINTENANCE

Replacing a Headlight Bulb

If the headlight burns out replace it as follows:



1. Remove the bulb holder ① and bulb ② by removing the three screws ③ located on the back of the bezel ④.
2. Disconnect the wire connectors from the bulb.
3. Remove the two screws ⑤ located on the side of the bulb holder ① to gain access to the headlight bulb ②.
4. Insert a new bulb ② into the bulb holder ① and secure with the two bulb holder screws ⑤. Torque to 3 ~ 4.5 Nm, 0.3 ~ 0.45 m•kg (27 ~ 40 in•lb).
5. Reattach the bulb holder ① to the bezel ④ and torque to 3 ~ 4.5 Nm, 0.3 ~ 0.45 m•kg (27 ~ 40 in•lb).

MAINTENANCE

Adjusting a Headlight

NOTICE

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

1. Loosen the two screws ① for the headlight bulb bracket. Do not remove the screws, just loosen them.

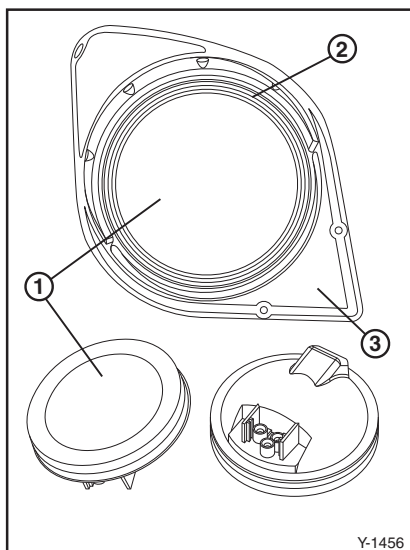
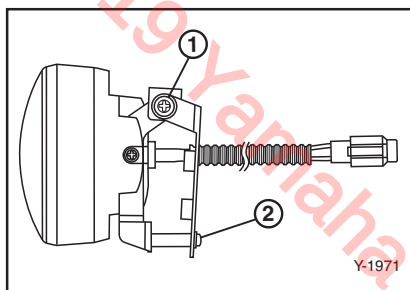
TIP

The screws can be accessed from under the fender through the access holes on the sides of the headlight bezel.

2. Using a Phillips head screwdriver, turn the adjusting screw ②. Turning the screw clockwise will lower the beam and turning the screw counter-clockwise will raise the beam.
3. Once the correct adjustment has been made, tighten the screws ① to 3 ~ 4.5 Nm, 0.3 ~ 0.45 m•kg (27 ~ 40 in•lb).

Replacing a Taillight Bulb

1. If a taillight bulb burns out, replace the bulb assembly ① by removing the rubber grommet ② from the bezel assembly ③.
2. Remove the wire connector, replace the bulb, and reinstall by fitting the rubber grommet ② over the bulb assembly ① and bezel ③.



STORAGE

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

TIP

Turn main switch key 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.

STORAGE

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: 152 kPa (22 psi)
Rear: 152 kPa (22 psi)
2. Clean exterior of the sport vehicle and apply a rust inhibitor.
3. Cover the sport vehicle with a breathable cover and store it in a dry, well-ventilated area.

BATTERY PREPARATION

1. Remove the battery from the sport 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	YDRA SPORT VEHICLE
Dimensions:	
Overall length	2765 mm (108.9 in.)
Overall width	1296 mm (51.02 in.)
Overall height (steering height)	1271.2 mm (50.05 in.)
Height of floor	365 mm (14.4 in.)
Wheelbase	1640 mm (64.6 in.)
Tread:	
Front	961.3 mm (37.8 in.)
Rear	1021.3 mm (40.2 in.)
Minimum ground clearance	139 mm (5.5 in.)
Weight:	
Dry weight (without battery)	410.5 kg (905.0 lb)
Performance:	
Factory speed setting	19 km/h (12 mph)
Maximum speed	24 km/h (15 mph)
Minimum turning radius	3.0 m (9.8 ft)
Seating capacity	Two occupants per seat, four occupants maximum
Maximum load per seat	181 kg (400 lb)
Maximum cargo bed capacity	110 kg (250 lb)
Gross vehicle weight	772.5 kg (1,703 lb)
Fuel tank capacity	22.0 L (5.8 US gal)

PAINT CODES

Name	Ditzler Number
Glacier	918519
Moonstone Metallic	5939 (ColorRite)
Onyx Metallic	918512
Larimar Metallic	194512
Jasper Metallic	5949 (ColorRite)

SPECIFICATIONS

ENGINE

Items	YDRA SPORT VEHICLE
Description:	
Engine type	4-stroke, Gasoline, OHV
Number of cylinders	Single
Displacement	357 cm ³
Bore x stroke	85 x 63 mm (3.30 x 2.48 in.)
Compression ratio	8.1:1
Rated output	8.5 kw (11.4 hp)/3500 rpm
Cooling system	Forced air-cooled
Starting system	Starter
Ignition system	TCI Magneto
Spark plug type	BPR2ES
Spark plug gap	0.7-0.8 mm (0.028-0.031 in.)
Lubrication system	Splash
Engine oil type	YAMALUBE 4-cycle oil or SAE 10W30
Engine oil capacity	1.0 L, 1000 cc (1.0 US qt)
Oil change quantity	1.0 L, 1000 cc (1.0 US qt)

TRANSMISSION

Items	YDRA SPORT VEHICLE
Transmission:	
Type	V-belt automatic centrifugal engagement
V-belt width and outer line length	31.0 x 1010 mm (1.20 x 39.76 in.)
V-belt wear limit	27.0 mm (1.06 in.)
Governor:	
Type	Oil bath flyweight
Factory speed setting	19 km/h (12 mph)
Differential/reduction gear	Secondary reduction system helical gear Secondary reduction ratio: Forward 11.34:1; Reverse 15.25:1 Differential type bevel gear Lubricant/capacity SAE 90 gear oil/355 cc (355 mL, 0.38 US qt)

SPECIFICATIONS

BATTERIES

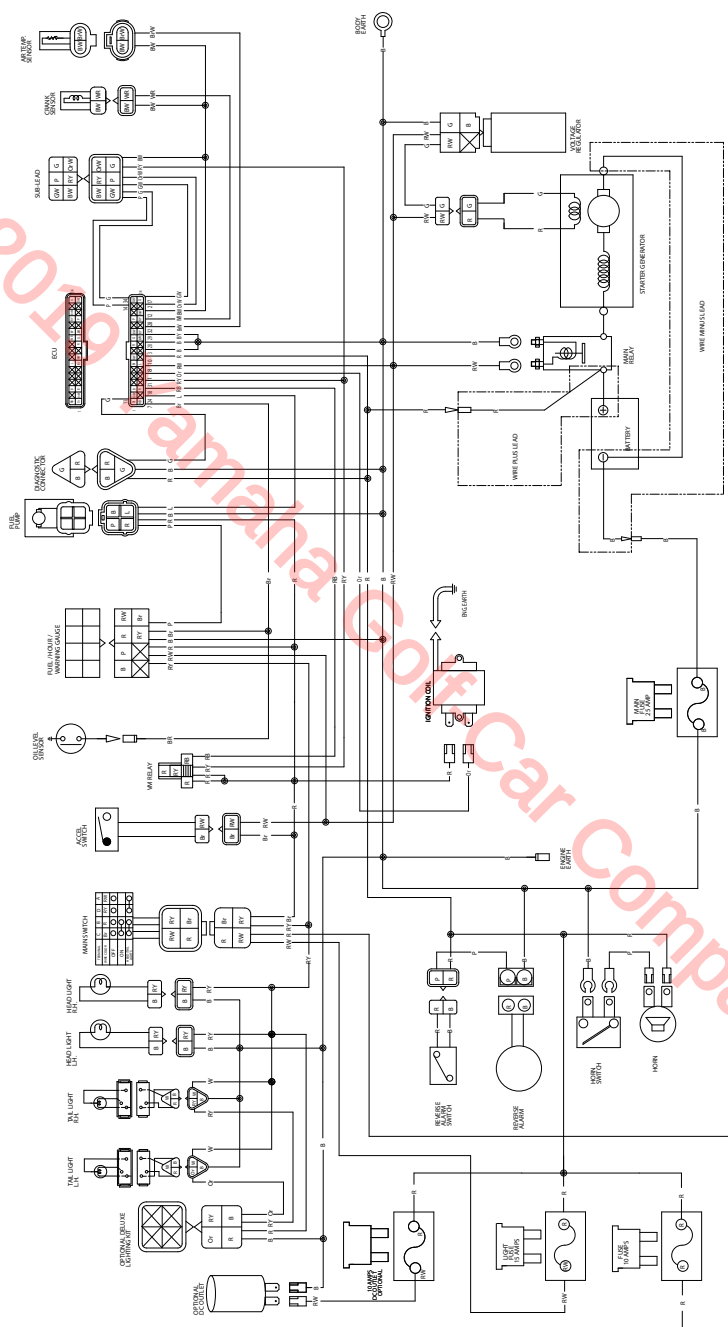
Items	YDRA SPORT VEHICLE
Battery	BCI group 24, RC: minimum 75 min CCA: minimum 400A

CHASSIS

Items	YDRA SPORT VEHICLE
Steering system: Type Steering angle (L.H.) Steering angle (R.H.)	Rack and Pinion 1.85 turn 1.85 turn
Brakes: Brake system Type of brake Brake pedal freeplay linkage adjustment (Brake cable end play)	Mechanical drum brake on each rear wheel with self-adjusters Dual internal expanding shoe Leading/trailing shoes (self-adjusting) 20-25 mm (0.79-0.98 in.) 0.004-0.02 in. (0.1-0.5 mm)
Parking brake: Type	Foot type; parking brake with automatic release.
Release timing (With pedal segment in second notch) (Bolt heads round parallel to arm)	0.0 ~ 0.3 mm (0.000 ~ 0.001 in.)
Wheel: Tire size: Front Rear Rim size: Tire pressure:	20 x 10-8.00/PR 20 x 10-8.00/PR 8 x 7 Front: 152 kPa (22 psi) Rear: 152 kPa (22 psi)

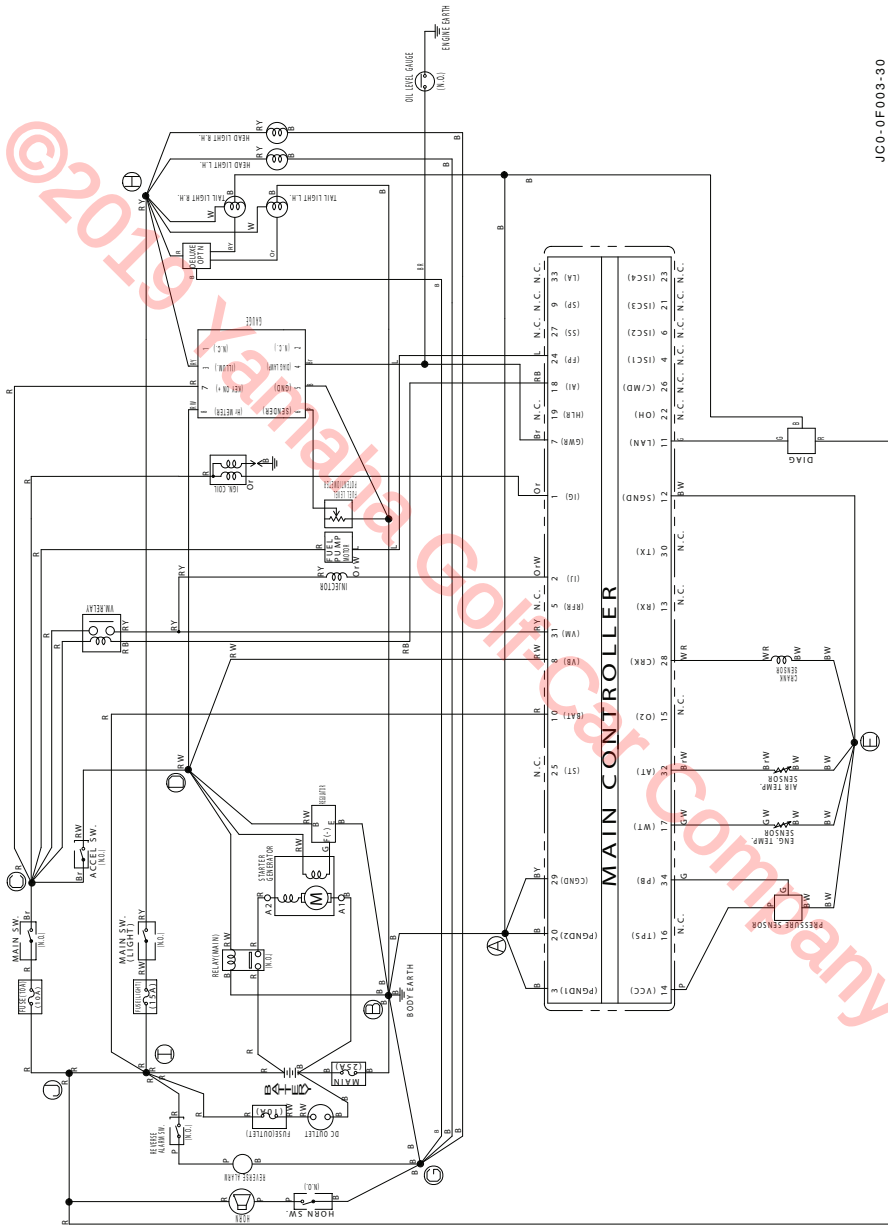
WIRING

SPORT VEHICLE WIRING DIAGRAM



JCO-0F001-30

WIRING



NOTES

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