



OWNER'S / OPERATOR'S
MANUAL

YDRE

**Six-Passenger
48-Volt Vehicle**

INTRODUCTION

Congratulations on your purchase of a Yamaha six-passenger vehicle. This manual contains information you will need for proper operation, maintenance, and care of your 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 vehicle, please consult a Yamaha dealer.

YAMAHA GOLF-CAR COMPANY

**SIX-PASSENGER
48-VOLT VEHICLE
OWNER'S/OPERATOR'S
MANUAL**

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1st Edition**

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LIT-19626-24-50**

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 six-passenger 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 six-passenger vehicle and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.
- This manual should be considered a permanent part of your six-passenger vehicle and should remain with the vehicle when resold.

WARNING

Read and understand this manual completely before operating your six-passenger vehicle.

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WARRANTY

1

LIMITED 2-YEAR UTILITY AND TRANSPORTATION VEHICLE LIMITED WARRANTY

Yamaha Golf-Car Company hereby warrants that any new Yamaha Adventurer utility 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 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:

- a. Abnormal strain, neglect, or abuse, including lack of proper maintenance, and use contrary to the Owner's/Operator's Manual instructions.
- b. Accident or collision damage.
- c. Installation of parts or accessories that are not original equipment.
- d. Fading, rust, or deterioration due to exposure or ordinary wear and tear.
- e. 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.
- f. Damage due to improper transportation.
- g. Acts of God, i.e. 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 is also excluded from this warranty.

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

1. Operate and maintain the vehicle and charger as specified in the appropriate Owner's/Operator's Manual;
2. 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.

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

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 ARE 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.

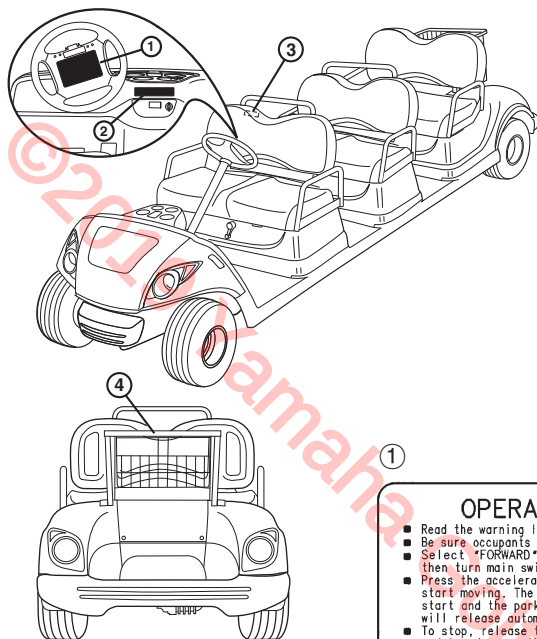
Yamaha Golf-Car Company, NEWNAN, GEORGIA 30265-1320

EFFECTIVE DATE: 6/1/08

LIT-13710-U3-08

IMPORTANT LABELS

2



Y-1616

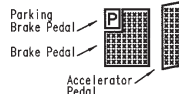
⚠ SAFETY AND INSTRUCTION LABELS

⚠ WARNING

Please read the following labels carefully before operating your six-passenger 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 warning labels in this manual.

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.
- 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.
- Come to a complete **stop** before reversing direction.
- Press the parking brake pedal until it locks, and turn the main switch to **"OFF"** before leaving the vehicle.
- 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

JU0-K7762-00

Y-500a

⚠ WARNING

DEATH OR SEVERE PERSONAL INJURY CAN RESULT FROM FAILURE TO FOLLOW THESE INSTRUCTIONS.

- Read the label located on the steering wheel before operation.
- Operate only when authorized and only in designated areas.
- Operate from driver's side only.
- Do not allow more than two occupants per seat.
- Do not start vehicle until all occupants are seated.
- Remain seated and hold on when in motion.
- Keep entire body inside vehicle.
- Drive slowly in turns.
- 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.

YAMAHA

REV

FWD

OFF

ON

JW2-K7768-00

③

⚠ WARNING

DEATH OR SEVERE PERSONAL INJURY CAN RESULT FROM FAILURE TO FOLLOW THESE INSTRUCTIONS

- Vehicle capacity : 2 occupants per seat
- Remain seated and hold on when in motion.
- Keep entire body inside vehicle.

YAMAHA

JR0-K7767-00

④

⚠ WARNING

"Do not stand or sit in this area. You could fall and be injured."

YAMAHA

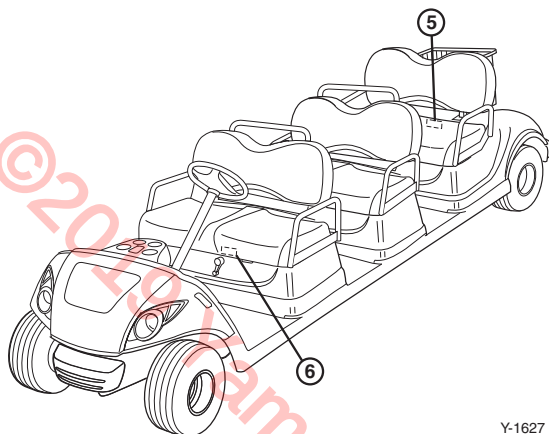
JR0-K7766-00

JW2

2-1

IMPORTANT LABELS

2



SAFETY AND INSTRUCTION LABELS

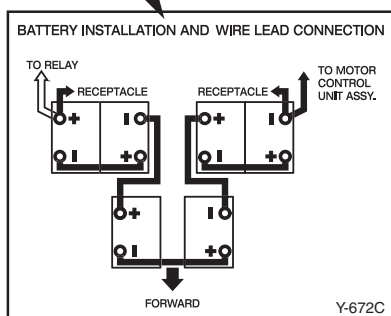
WARNING

Please read the following labels carefully before operating your six-passenger 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 warning labels in this manual.

Y-1627

⑤

BATTERY INSTALLATION AND WIRE LEAD CONNECTION			
	EXPLOSIVE GASES LES GAZ EXPLOSIFS are released when batteries are charged or discharged. Keep well ventilated. Keep sparks, flames and cigarettes away. Shield eyes when working near batteries.	SULFURIC ACID L'ACIDE SULFURIQUE in batteries will burn skin, eyes, and clothing. Do not tip batteries. Keep with caps tight and level. In event of injury, flush with water and call physician immediately.	ELECTRICAL SHORTS LES COURTS-CIRCUITS ELECTRIQUES can result in burns. Do not make connection between positive and negative battery terminals.



⑥

CAUTION/AVERTISSEMENT

Move switch to the "TOW" position before towing or storage. Failure to do so may lead to:

- Drive system damage or electrical fire when towing.
- Complete battery discharge and battery damage when storing long term.

NOTE: After moving switch from "RUN" to "TOW", wait 15 seconds minimum before switching again.

Mettre l'Interrupteur à position "TOW" avant de remorquer ou avant l'entreposage.

Non-observation pourrait:

- endommager le système d'actionnement pendant la remorque.
- causer une décharge totale de la batterie et endommager la batterie pendant l'entreposage à long terme.

NOTE: Après avoir changé l'interrupteur de position "RUN" à position "TOW", attendre un minimum de 15 secondes avant de le remettre.

YAMAHA

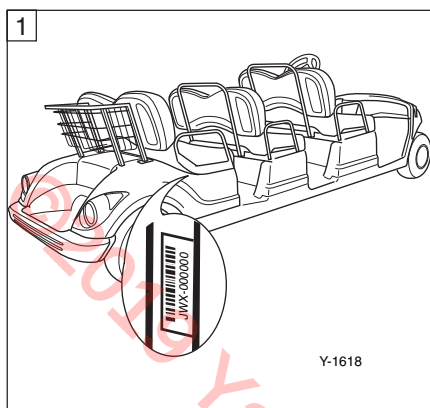
JR K8/98 10

TOW

RUN

Y-844a

IMPORTANT LABELS



SIX-PASSENGER VEHICLE SERIAL NUMBER

The vehicle serial number ① 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.



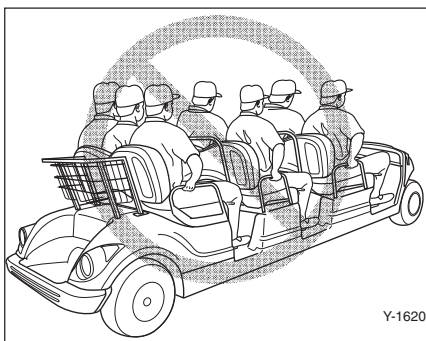
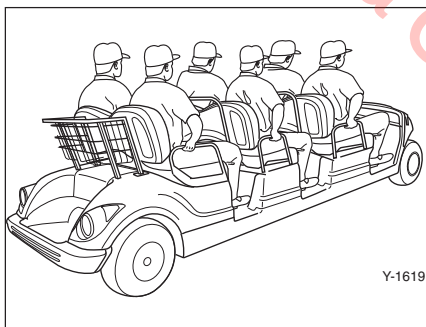
OPERATOR SAFETY

3

Yamaha vehicles are designed to be simple to operate; however, be sure to observe the following:

BEFORE USING THE SIX-PASSENGER VEHICLE

- Read this Owner's/Operator's manual and all safety and instruction labels on the vehicle before operating.
- Perform the pre-operation checks found in Section 6 of this manual.
- Only authorized people should drive the vehicle, from the driver's side only, and only in designated areas.
- Do not allow more than two occupants per seat. This vehicle is restricted to a maximum of six occupants: a driver and passenger in the front seat and two passengers in each row.
- Do not operate the vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a vehicle dangerous.
- Do not operate the vehicle on public streets, roads or highways unless allowed by law or local regulating authority.
- Do not allow more than six people to ride in the six-passenger vehicle. This vehicle is restricted to a maximum of six occupants: a driver and passenger in the front seat and two passengers in each row.

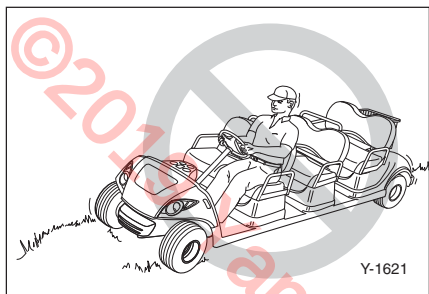




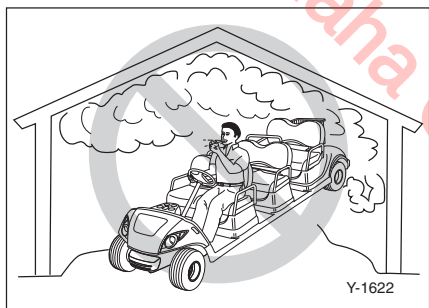
OPERATOR SAFETY

WHILE OPERATING THE SIX-PASSENGER VEHICLE

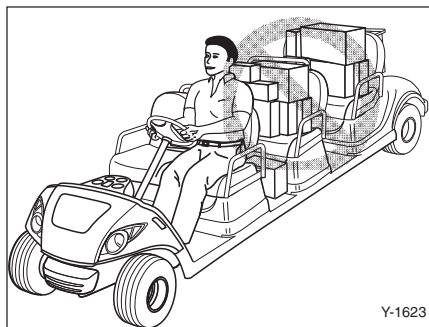
3



Y-1621



Y-1622



Y-1623

- Keep your entire body inside the vehicle, remain seated and hold on when the vehicle is in motion.
- Do not start the vehicle until all occupants are seated.
- Keep your hands on the steering wheel and your eyes on the path ahead.
- Use extra care in congested areas or when backing up. Always back up slowly, and watch carefully.
- Avoid starting or stopping abruptly.
- Vary the speed of the vehicle to match the terrain of the course.
- Avoid turning the steering wheel too sharply at higher speeds.
- Always drive slowly straight up or straight down slopes – never at an angle.
- All occupants should remain inside the vehicle, remain seated, and hold on when the vehicle is in motion.
- Do not run the engine indoors. Exhaust gas is poisonous.
- Do not start the vehicle until all occupants are seated and holding on, with their entire bodies inside the vehicle.
- Do not use the second row or rear seat for cargo or luggage storage. The second row and rear seat are to be used for one- or two-person occupancy only.
- 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 CONSIDERATIONS

Like all machines, six-passenger vehicles can cause injury if improperly used or maintained. This section contains broad safety practices required for safe vehicle operation.

Experience has shown that six-passenger vehicles are safe when operated in accordance with the safety warnings affixed to every vehicle. This safe operation is enhanced when vehicles are used according to the safety rules and practices established to meet the terrain and conditions of the course on which they are used.

If you are responsible for the operation and maintenance of this vehicle, we encourage you to implement this vehicle safety program.

DRIVER QUALIFICATIONS

Only authorized people should operate the vehicle. It is recommended that only people who possess a valid motor vehicle driver's license be allowed to operate the vehicle.

Place operation and safety instructions recommended by the vehicle manufacturer in a conspicuous place near the vehicle rental area or pick-up area. It is also recommended that the following warning be posted in a conspicuous location:

WARNING

Do not operate six-passenger vehicles when under the influence of alcohol or drugs. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

SAFETY SURVEY

Perform safety surveys regularly to identify hazardous areas where vehicles should not be operated.

HAZARD PREVENTION

The following hazards must be made safe:

- **Steep Grades.** Where steep grades exist, restrict vehicles to designated pathways when possible. In addition, identify steep grades with a suitable warning like:

WARNING

Descend steep grades slowly with foot on brake. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

- **Sharp Turns, Blind Corners, Bridge Approaches.** Chain or rope off these potentially hazardous areas or identify them with a suitable warning describing the nature of the hazard and the proper precautions to be taken to avoid the hazard.



SAFETY CONSIDERATIONS

- **Wet Areas.** Wet grass may cause a vehicle to lose traction and may affect stability. Reduce speed in wet areas or during periods of inclement weather.
- **Loose Terrain.** Loose terrain may cause a vehicle to lose traction and may affect stability. Repair loose terrain, chain or rope off these areas, or identify loose terrain with a suitable warning.
- **Six-Passenger Vehicle and Pedestrian Interference.** Reroute vehicle traffic or pedestrian traffic in congested areas wherever possible to prevent accidents.

MAINTENANCE REQUIRED FOR SIX-PASSENGER VEHICLE SAFETY

Practice the following to help ensure the safety of vehicle operators and passengers:

- **Preventative Maintenance.** Perform all scheduled maintenance in accordance with manufacturer's recommendations to provide the user with a safe, properly operating vehicle.
- **Personnel.** Allow only qualified, trained, and authorized personnel to inspect, adjust and maintain the vehicle.
- **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 also required to remove hydrogen gas from the car storage areas during the battery charging process.



SAFETY CONSIDERATIONS

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 the six-passenger vehicle before beginning any maintenance.
- Properly block chassis before working underneath vehicle.
- Avoid fire hazards, and have appropriate fire protection equipment available.
- 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 vehicles or around batteries.
- 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 car must be driven by a qualified, trained and authorized person — in an area free of pedestrian traffic — to ensure proper operation and adjustment.

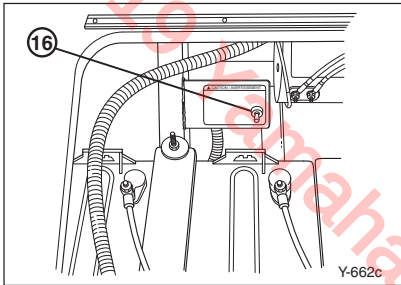
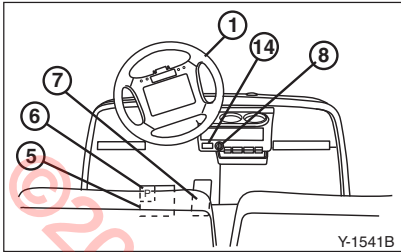
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- Provide operator comment cards to assist in identifying non-periodic maintenance needs for specific six-passenger vehicles.
- 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 Golf-Car Company dealer.

STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

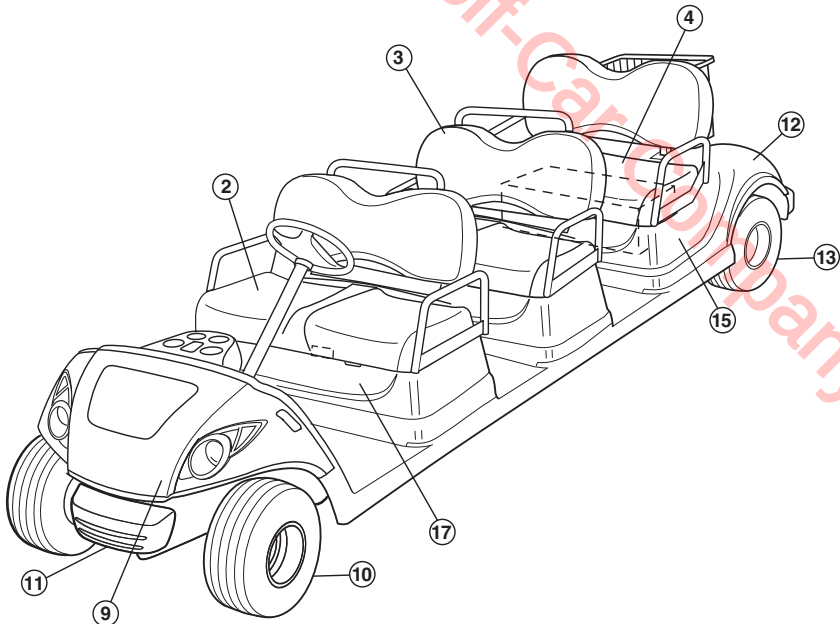
- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements.
- Only use battery charging facilities and procedures that are in accordance with applicable ordinances and regulations.

CONTROLS



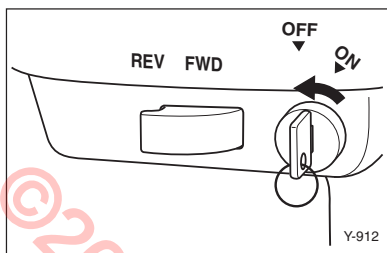
FEATURES

- ① Steering wheel
- ② Front seat
- ③ Mid seat
- ④ Rear seat
- ⑤ Brake pedal
- ⑥ Parking brake pedal
- ⑦ Accelerator pedal
- ⑧ Main switch
- ⑨ Front body
- ⑩ Front tire
- ⑪ Front bumper
- ⑫ Rear body
- ⑬ Rear tire
- ⑭ Drive selector switch
- ⑮ Batteries
- ⑯ Tow switch
- ⑰ Receptacle



Y-1628

CONTROLS



MAIN SWITCH

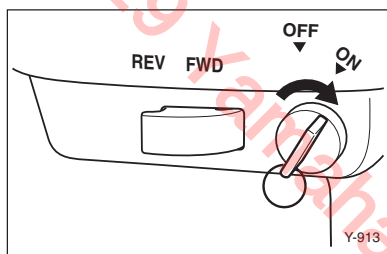
The main switch controls the following items:

OFF

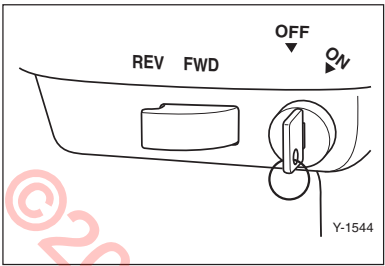
Ignition circuit is switched off.
The key can be removed only in this position.

ON

Electrical circuits are switched on.
The vehicle can be driven.



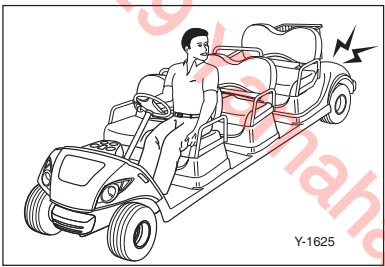
CONTROLS



DRIVE SELECTOR SWITCH

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

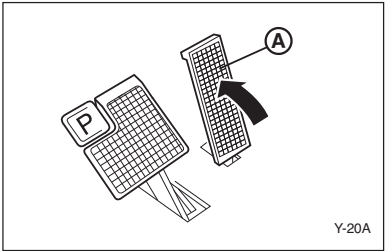
Switch Position	Vehicle Movement
FWD	FORWARD
REV	REVERSE



TIP

The back-up buzzer will beep when the drive selector switch is turned to "REV."

5

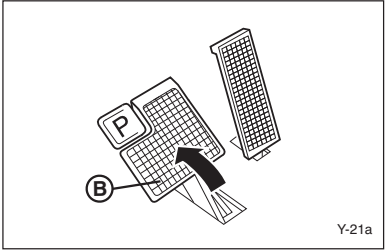


ACCELERATOR PEDAL

The accelerator pedal controls the vehicle's speed.

Action	Vehicle Speed
Depress pedal	Increase
Release pedal	Decrease

(A) Accelerator pedal

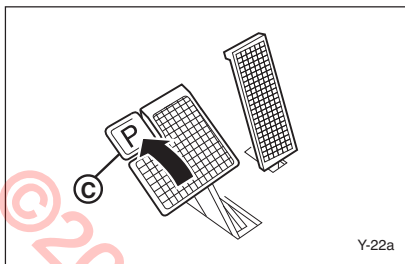


BRAKE PEDAL

Press down on the brake pedal to stop the six-passenger vehicle.

(B) Brake pedal

CONTROLS



PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the six-passenger 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 vehicle to move. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

TOW SWITCH

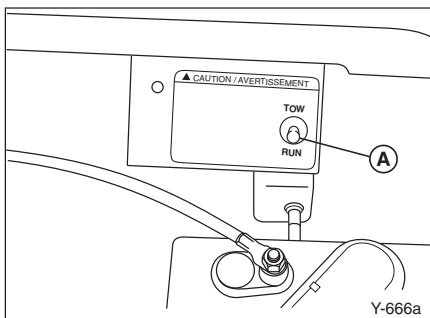
Before operating the six-passenger vehicle, make sure the tow switch is in the “RUN” position.

Ⓐ Tow switch

NOTICE

Ensure that the drive selector switch is in the “FWD” position and then move the tow switch to “TOW” before towing.

Failure to do so may lead to drive system damage.



PRE-OPERATION CHECKS

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

⚠ WARNING

Be sure the main switch key is removed before performing the pre-operation checks to prevent accidental starting, and apply the parking brake to keep the vehicle from moving. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

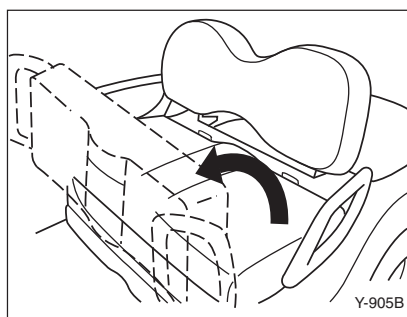
PRE-OPERATION CHECKLIST

Before each use check the following:

- ✓ Batteries
- ✓ Tire condition
- ✓ Steering system
- ✓ Back-up buzzer
- ✓ Pedal operation
- ✓ Body and chassis

SEAT

Open the seat for checking and servicing.



PRE-OPERATION CHECKS

BATTERIES

Check that the batteries are held securely in place to prevent the batteries from being damaged from vibration or jarring. Also check that no battery caps are missing to prevent battery acid from spilling from the batteries. Check the battery terminals for corrosion.

TIRE CONDITION

Tire Air Pressure

Check the tire air pressure before operating the six-passenger vehicle.

Tire pressure:

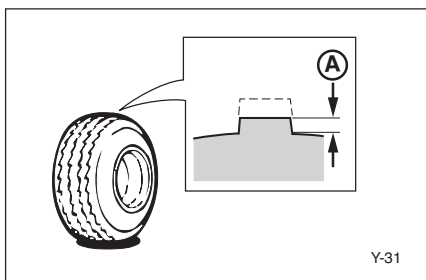
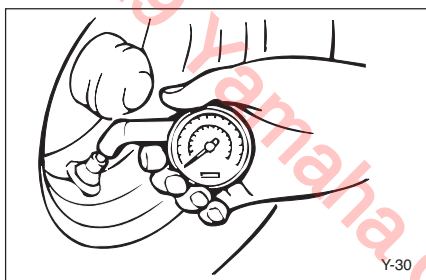
137-160 kPa, 1.4-1.6 kgf/cm²
(20-23 psi)

Tire Wear Limit

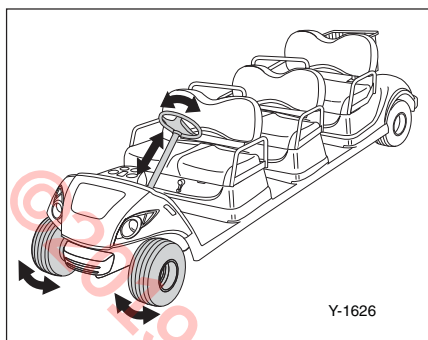
Check the tire surface for damage, cracks or embedded objects. When tire tread wears down to 1 mm (0.04 in.), replace the tire.

Ⓐ Wear limit

6



PRE-OPERATION CHECKS

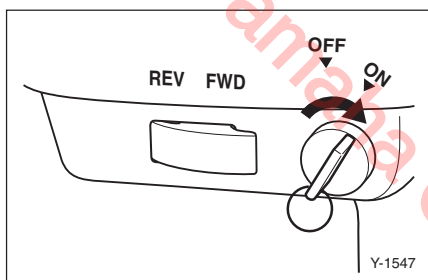


STEERING SYSTEM

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.



BACK-UP BUZZER

Check the back-up buzzer by moving the drive selector switch to "REV" for reverse. The buzzer should sound.

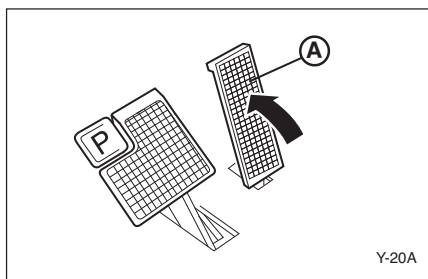
PEDAL OPERATION

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

Accelerator Pedal

⚠ WARNING

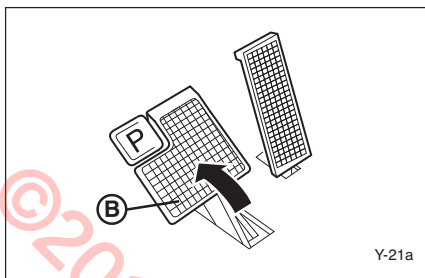
Before checking operation of the accelerator pedal, be sure the main switch is in the "OFF" position. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.



Make sure the accelerator pedal operates smoothly.

- Ⓐ Accelerator pedal

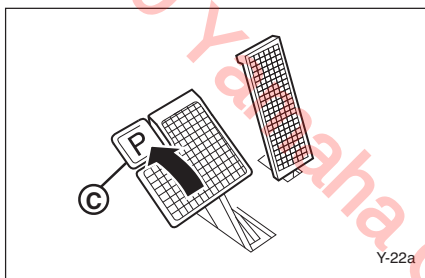
PRE-OPERATION CHECKS



Brake Pedal

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

Ⓑ 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.

Ⓒ Parking brake pedal

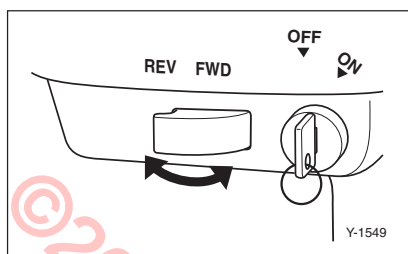
TIP

Release the parking brake by depressing the accelerator pedal.

BODY AND CHASSIS

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

OPERATION



STARTING

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

NOTICE

Do not shift from “FWD” forward to “REV” reverse while the six-passenger vehicle is moving. Transmission damage can result.

2. Turn the main switch to “ON.”

⚠ WARNING

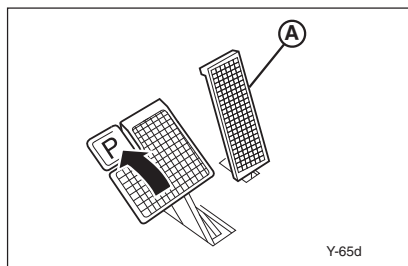
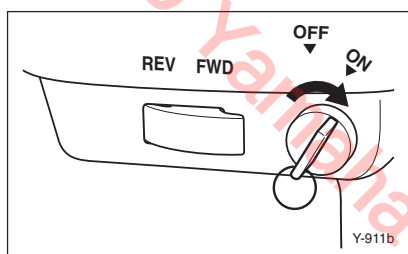
Do not depress the accelerator pedal when turning on the main switch or the vehicle may suddenly start moving. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

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.

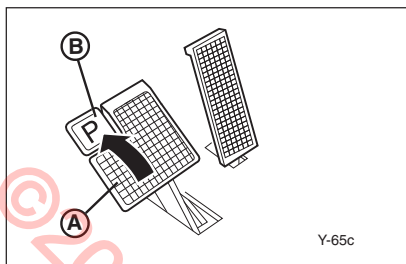
Ⓐ Accelerator pedal

TIP

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



OPERATION



STOPPING

To stop the six-passenger vehicle, gradually press down on the brake pedal.

Ⓐ Brake pedal

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

Ⓑ Parking brake pedal

NOTICE

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

MAINTENANCE

PERIODIC MAINTENANCE CHARTS

Regular maintenance is required for the best performance and safe operation of your six-passenger 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.

FOR JW2

C - CHECK CA - CHECK AND ADJUST R - REPLACE S - SERVICE CL - CLEAN AND LUBRICATE L - LUBRICATE								
	Remarks	Daily Pre-Operation	40 rounds 20 hours 160 kms 100 miles (Every month)	250 rounds 125 hours 1000 kms 600 miles (Every 6 months)	500 rounds 250 hours 2000 kms 1200 miles (Every year)	1000 rounds 500 hours 4000 kms 2500 miles (Every 2 years)	2000 rounds 1000 hours 8000 kms 5000 miles (Every 4 years)	Page
PRE-OP	Charge	S	S	S	S	S	S	4-3/ 8-5/ 8-6
	Clean battery tops, check for tightness of hold-down screws and terminals	S	S	S	S	S	S	6-2
	Check brake pedal free play and adjust if necessary	C	CA	CA	CA	CA	CA	6-3/ 6-4/8-11
	Check steering operation	C	C	C	C	C	C	6-3
	Check tire pressure, tread depth, tire surface for damage	C	CA	CA	CA	CA	CA	6-2
	Check body and chassis for damage	C	C	C	C	C	C	6-4
	Check tightness of all bolts, nuts, screws and rivets	C	C	C	C	C	C	*
	Check back-up buzzer operation	C	C	C	C	C	C	6-3
EVERY MONTH	Check electrolyte level		C	C	C	C	C	8-3 8-4
	Check for loose or broken connections		C	C	C	C	C	*
	Clean/Lube pedal control area		CL					—
EVERY 6 MONTHS	Check all wire insulation for cracks and/or worn spots			C	C	C	C	*
	Check shock absorbers for oil leaks and damaged springs			C	C	C	C	*

* 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.

MAINTENANCE

PERIODIC MAINTENANCE CHART (CONTINUED)

FOR JW2

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

	Remarks	Daily Pre- Operation	40 rounds 20 hours 160 kms 100 miles (Every month)	250 rounds 125 hours 1000 kms 600 miles (Every 6 months)	500 rounds 250 hours 2000 kms 1200 miles (Every year)	1000 rounds 500 hours 4000 kms 2500 miles (Every 2 years)	2000 rounds 1000 hours 8000 kms 5000 miles (Every 4 years)	Page
EVERY YEAR	Perform a discharge test				S	S	S	*
	Apply terminal protectant				S	S	S	—
	Check rear axle bearing play for roughness or free play				C	C	C	*
	Check steering knuckle bushing free play / Adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness, front wheel bearing play				C	C	C	8-10/*
	Check transaxle oil level and inspect for leakage				C	C	C	8-9
	Check pedal stop operation and adjust if necessary				CA	CA	CA	*
EVERY 4 YEARS	Replace transaxle oil						R	*
	Inspect internal wet brake and replace pads if necessary						CA	*

* 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.

MAINTENANCE

Battery Care

⚠ 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.

8

Six 8-volt deep-cycle batteries provide power for your vehicles and must be properly maintained and recharged for maximum performance and service life.

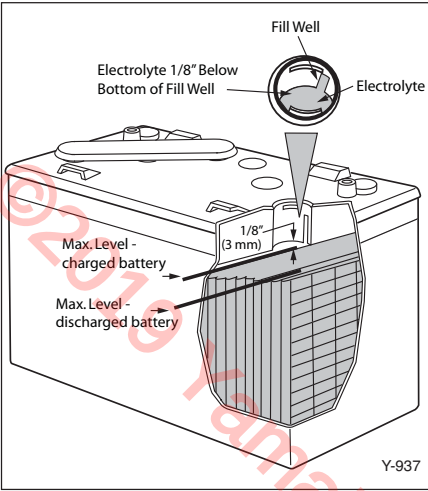
To maintain your batteries:

1. Clean the tops of the batteries with a solution of baking soda and water, as necessary, to remove corrosion.

NOTICE

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

MAINTENANCE



2. Check the fluid level before and after charging.

- **Before charging:** Only add distilled water if fluid is below the top of the plates, and then add just enough to cover plates.
- **After charging:** Open the vent caps and look inside the fill wells. Add distilled water until the electrolyte level is 3 mm (1/8") below the bottom of the fill well. A piece of rubber can be used safely as a dipstick to help determine this level. Clean, replace and tighten all vent caps.

NOTICE

Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

3. Using a hydrometer, check the specific gravity of the battery fluid in each cell against the readings on the chart below. Consult a Yamaha dealer if any low readings are found, or if readings vary more than one point between cells.

Temperature		Satisfactory Uncorrected Hydrometer Reading
°C	°F	
48.9	120	1.244
43.3	110	1.248
37.8	100	1.252
32.2	90	1.256
26.7	80	1.260
21.1	70	1.264
15.6	60	1.268
10.0	50	1.272
4.4	40	1.276
-1.1	30	1.280

MAINTENANCE

Battery Charging

⚠ WARNING

Read and understand the owner's manual provided with your six-passenger vehicle's battery charger before charging batteries. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

⚠ WARNING

Explosive hydrogen gas is produced while batteries are being charged. Only charge batteries in well-ventilated areas (a minimum of five air changes per hour is recommended). Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

To charge the batteries in your vehicle, follow the instructions contained in your battery charger's owner's manual. The following is a summary of the charging steps.

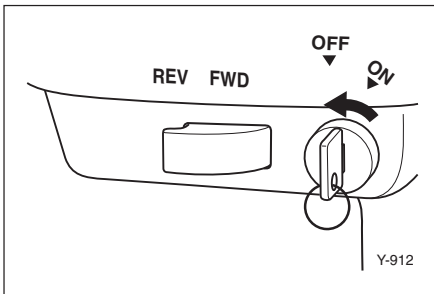
⚠ WARNING

Do not attempt to recharge your vehicle's batteries without thoroughly reading and understanding the owner's manual provided with your charger. Death or serious personal injury can result.

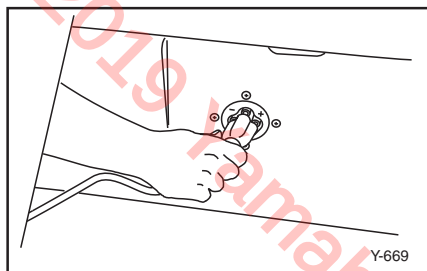
1. Turn main switch key to "OFF" position.

NOTICE

Always put the tow switch in the TOW position before charging battery or damage to the electrical system may result.



MAINTENANCE



2. Lift up the seat and move the tow switch to the TOW position.

NOTICE

Use only battery chargers that are rated for use with 48-volt Yamaha vehicles. Thoroughly read and understand the user manual supplied with your 48-volt charger.

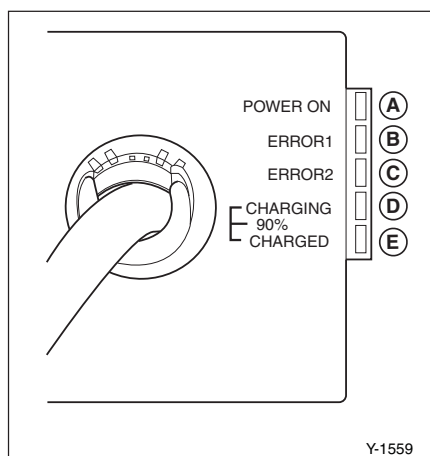
3. With the charger properly connected and grounded (see charger's owner's manual), insert the DC output into the vehicle receptacle.

⚠ WARNING

Do not disconnect the DC output cord from the battery receptacle when the charger is on or an arc could occur that may cause an explosion. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

- (A) Power ON Light (Red)
- (B) Error Light 1 (Red)
- (C) Error Light 2 (Red)
- (D) Charging Light (Yellow)
- (E) Charged Light (Green)

4. When the charger is plugged into the AC power, the Power ON Light illuminates continuously.
5. If Error 1 or Error 2 light is blinking, there is a problem with the batteries or the charger. Contact your Yamaha Dealer.
6. During normal charging, the Charging Light blinks or continually illuminates.
7. The charger turns off automatically when the batteries reach full charge.



MAINTENANCE

8. After the charger has turned off, disconnect the DC output plug from the six-passenger vehicle receptacle by grasping the plug body and pulling the plug straight out of the receptacle.

Battery Installation

⚠ WARNING

When working with batteries, do not put wrenches or other metal objects across the battery terminals. An arc can occur causing explosion of the battery. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

1. Install the battery hold-down plates and torque to 7-9 Nm (0.7-0.9 m·kg, 62-80 in·lb) as shown.

- (A) Forward
- (B) Battery
- (C) Battery hold-down plate

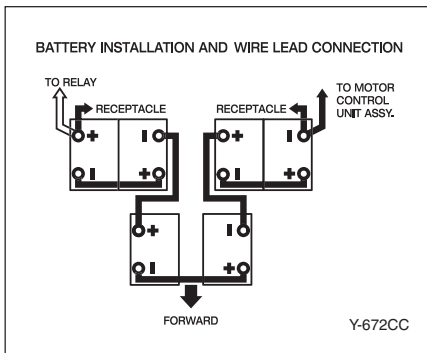
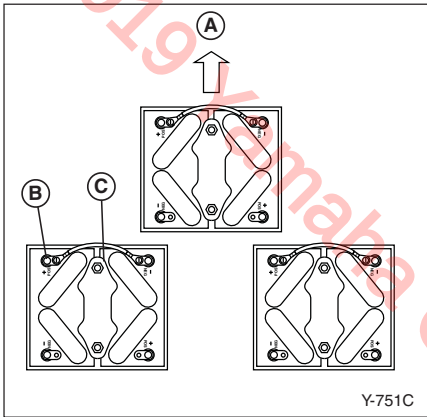
2. Connect the wire leads and torque to 9-10 Nm (0.9-1.0 m·kg, 80-89 in·lb) as shown.

8

⚠ WARNING

When installing batteries:

- Carefully place battery cables and hold-downs making sure that cables do not lay across vent caps.
- Always remove the negative (-) cable to the motor controller first, and install it last. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.



MAINTENANCE

NOTICE

Do not over-tighten the battery hold-down nuts. Excessive force will damage the battery casing.

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 instructions in this manual.

NOTICE

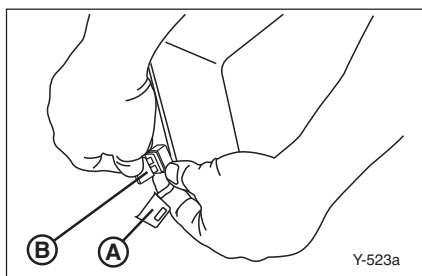
When replacing a fuse, be sure the main switch is turned off to prevent accidental short-circuiting and electrical system damage.

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

- Ⓐ Fuse holder
- Ⓑ Fuse

Fuse Type:
10 Amp, Blade Style

8



MAINTENANCE

Transaxle Oil

To check transaxle oil level:

1. Place the six-passenger 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 area around servicing plug ④.
5. Using an 8 mm hex wrench, remove transaxle oil servicing plug located on the rear of the transaxle case.
6. Transaxle oil should be at the top of the oil servicing hole or just beginning to run out of hole.

NOTICE

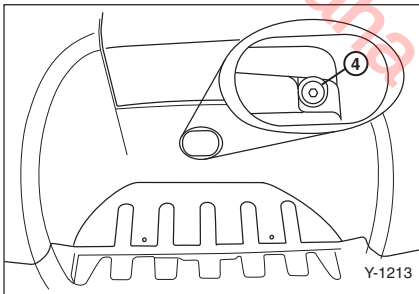
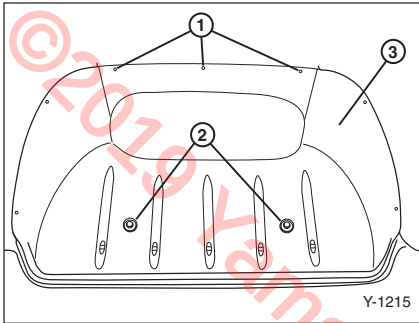
Do not allow foreign material to enter transaxle. Serious transaxle damage can result.

7. If needed, add Yamalube Shaft Drive Gear Oil until it is at the top of the plug hole or just beginning to run out of servicing hole.

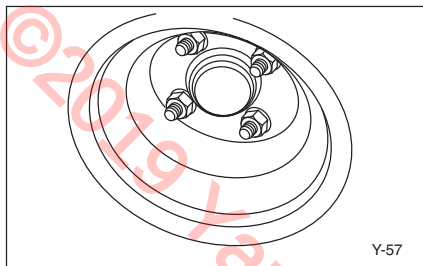
TIP

The vehicle is equipped with an internal wet brake. Use of oil other than Yamalube Shaft Drive Gear Oil will cause brake noise.

8. Install the transaxle servicing plug and tighten to 14-19 Nm, 1.4-1.9 m•kg (120-168 in•lb).
9. Install the bag holder insert ③ and secure with two bolts ② and seven plastic rivets ①.



MAINTENANCE



TIP

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

NOTICE

Before performing wheel or brake maintenance, verify that the main switch is in the “OFF” position. Serious transaxle damage can result.

Wheel Replacement

To remove and install a wheel on your six-passenger vehicle:

1. With the wheels blocked to prevent the vehicle from moving, loosen the wheel nuts.
2. Elevate the 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:
80 Nm, 8.0 m·kg (58 ft·lb)

Brake Adjustment

The brakes on your 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 vehicle if you suspect brake problems. Death or serious personal injury can result from failing to comply with the warning instructions in this manual.

MAINTENANCE

Brake Pedal Free Play Adjustment

NOTICE

Before adjusting brake pedal free play, pump the brake pedal several times to self-adjust the brakes.

To adjust the brake pedal free play:

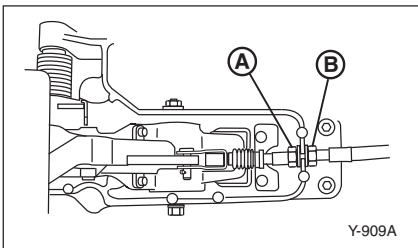
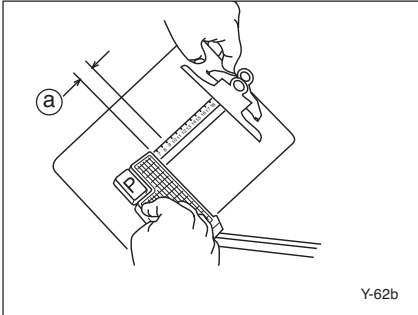
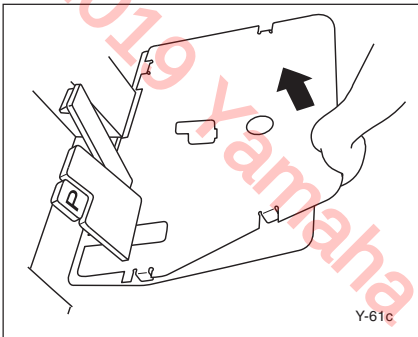
1. Remove the floor mat and service lid from the floor of the six-passenger vehicle.
2. Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

Brake pedal free play (a):
45-50 mm (1.77-1.96 in.)

3. 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.

NOTICE

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.



STORAGE

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

TIP

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

CHASSIS PREPARATION

1. Verify the tire pressure is set to 137-160 kPa, 1.4-1.6 kgf/cm² (20-23 psi).
2. Clean exterior of the six-passenger vehicle and apply a rust inhibitor.
3. Cover the vehicle with a breathable cover and store it in a dry, well-ventilated area.

BATTERY PREPARATION

1. Remove the batteries from the vehicle and store them in a cool, dry place that stays between 0°C (32°F) and 30°C (90°F).
2. Have the batteries recharged every 60-90 days to keep them fully charged. The batteries must be kept fully charged to avoid damage.

TIP

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.

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

SPECIFICATIONS

GENERAL SPECIFICATIONS

Items	
Dimensions:	
Overall length	4092 mm (161.4 in.)
Overall width	1200 mm (47.2 in.)
Overall height (steering height)	1190 mm (46.9 in.)
Seat height	737 mm (29 in.)
Wheelbase	3337 mm (131.38 in.)
Tread:	
Front	870 mm (34.3 in.)
Rear	980 mm (38.6 in.)
Minimum ground clearance	110 mm (4.3 in.)
Weight:	
Dry weight (without battery)	400 kg (884 lb)
Vibration Level:	
Vibration on seat (EN 1032, ISO5008) for Europe	Will not exceed 0.5 m/s ²
Vibration on steering wheel (EN1032, ISO5008) (for Europe)	Will not exceed 2.5 m/s ²
Performance:	
Factory speed setting	19 km/h (12 mph)
Maximum speed	22.5-25.8 km/h (14-16 mph)
Minimum turning radius	5.83 m (19 ft)
Seating capacity	Six persons

SPECIFICATIONS

TRANSMISSION

Items	
Differential/reduction gear:	Transaxle with Differential
Differential type	Bevel gear
Lubricant/capacity	Yamalube Shaft Drive Gear Oil/ 1750 mL, 1750 cc (1.85 US quarts)

BATTERIES

Items	
Battery:	48-volt high-efficiency Trojan T-1275 12V Deep Cycle RC: minimum 102 min.

PAINT CODES

OEM Code	Name	Ditzler Number
SPU60185	Glacier	918519
W44145	Emerald	48748
W49874	Garnet	701739
AH2039	Onyx Metallic	918520
AH5068	Cobalt Metallic	918521
AH5080	Anthracite Metallic	918522
AH9064	Sandstone Metallic	918523

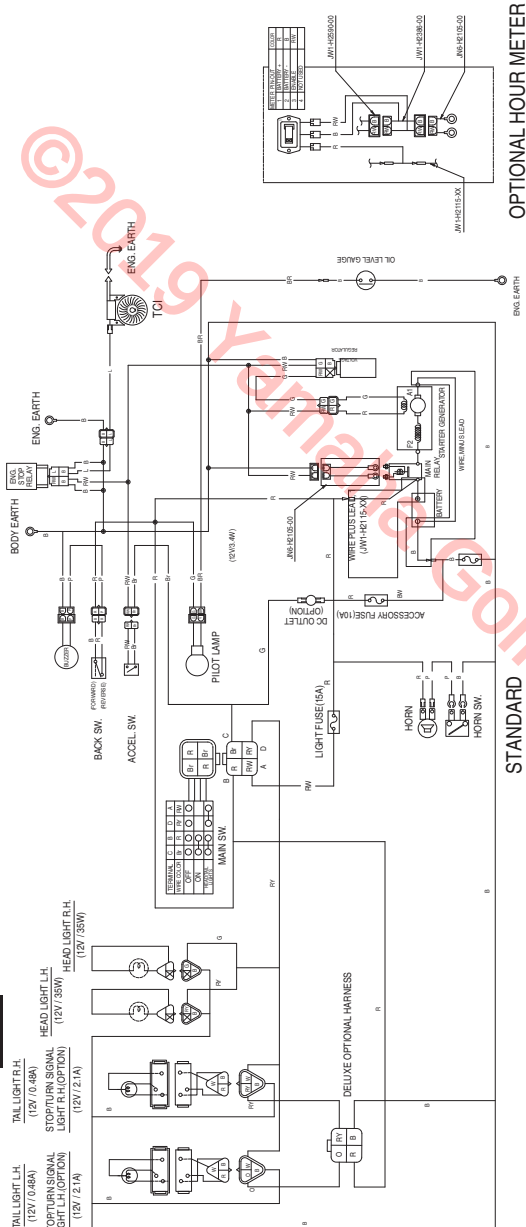
SPECIFICATIONS

CHASSIS

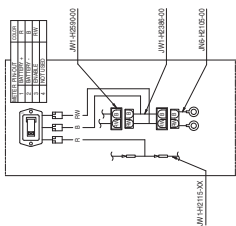
Items	
Steering system: Type Steering angle (L.H.) Steering angle (R.H.)	Rack and Pinion 1.85 turn 1.85 turn
Brakes: Brake system Type of brake Brake pedal free play linkage adjustment (Brake cable end play)	Mechanical Internal wet 45-50 mm (1.77-1.96 in.) 0.1-0.5 mm (0.004-0.02 in.)
Parking brake: Type	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:	18 x 8.50-8.00/4 PR 7.00-1-8.00 137-160 kPa, 1.4-1.6 kgf/cm ² (20-23 psi)

WIRING

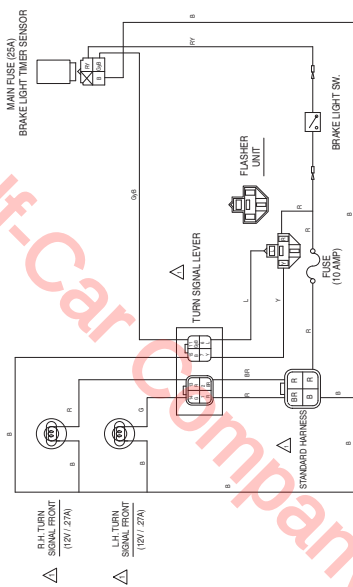
WIRING DIAGRAM



OPTIONAL HOUR METER



STANDARD



DELUXE OPTION

COLOR CODE

B	Black
L	Blue
G	Green
Y	Yellow
R	Red
P	Pink
Br	Brown
W	White
B/R	Black/Red
Y/B	Yellow/Black
R/Y	Red/Yellow
R/W	Red/White

Y-941E

NOTES

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NOTES

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