



YAMAHA

MODEL YEAR **2024**

OWNER'S / OPERATOR'S MANUAL



PERSONAL TRANSPORT VEHICLE

 Read this manual carefully before operating this vehicle.

DRIVE²



DR2 PTV QUIETECH



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

INTRODUCTION

Congratulations on your purchase of a Yamaha Electronic Fuel Injection (EFI) Personal Transport Vehicle (PTV). This manual contains information you will need for proper operation, maintenance, and care of your EFI PTV. 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 PTV, please consult a Yamaha dealer.

Yamaha Golf-Car Company

**DR2 PTV QUIETECH
OWNER'S/OPERATOR'S MANUAL
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IMPORTANT MANUAL INFORMATION

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

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	A WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	A NOTICE indicates special precautions that must be taken to avoid damage to the PTV or other property.
	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 PTV 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 PTV. This manual should be considered a permanent part of your PTV and should remain with the PTV when resold.

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WARRANTY

LIMITED 4-YEAR WARRANTY FOR DRIVE² PERSONAL TRANSPORTATION VEHICLES

Yamaha Golf-Car Company hereby warrants that any new Yamaha DRIVE² Gas or DRIVE² Electric Personal Transportation Vehicle (PTV) purchased from Yamaha, or an Authorized Dealer or Distributor in the United States will be free from defects in material and workmanship for FOUR years from date of purchase, subject to the stated limitations. DURING THE PERIOD OF WARRANTY, any authorized Yamaha golf car service technician, dealer, or distributor will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the vehicle's warranty period. All parts replaced under warranty become property of Yamaha Golf-Car Company.

Car Components	Warranty Period	Electric Car Specific Parts	Warranty Period
Frame	3 Years	Battery - Trojan T875 FLA	4 Years or 23,500 amp hours whichever comes first / without HydroLink Watering System
Transaxle	4 Years		4 Years or 25,000 amp hours whichever comes first / with HydroLink Watering System <i>*See Trojan Warranty Statement for details</i>
Steering / Suspension Components	4 Years	Battery - Trojan T875 AGM	5 Years or 50,000 amp hours whichever comes first
Brakes (Excluding Shoes / Pads)	4 Years		<i>*See Trojan Warranty Statement for details</i>
Sun Top	4 Years	RoyPow® Lithium-Ion Battery	5 Years or 97,000 amp hours whichever comes first
Electrical Wires, Switches, and Relays	3 Years		<i>*See RoyPow Battery Warranty Statement for details</i>
Pedal Assy	3 Years	Battery Charger and Cord	4 Years
Body Parts	3 Years	Electric Motor and Controller	4 Years
Bumpers / Bag Carrier	3 Years	Charger Receptacle	4 Years
Seats	2 Years	Throttle Position Sensor	2 Years
Scorecard Holder	2 Years	Gas Car Specific Parts	
Floor Mats	2 Years	Gas Engine	4 Years
Common Accessories		Starter Generator	4 Years
Windshield	3 Years	Exhaust / Intake	4 Years
Head Light / Tail Light	2 Years	Clutch (Excluding Drive Belt)	4 Years
		Throttle / Control Cables	3 Years
		Starting Battery	1 Year
		All Remaining Parts	1 Year

EXCLUSIONS from this Warranty shall include any failures caused by:

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

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

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

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

EMISSION CONTROL SYSTEM WARRANTY (USA only):

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

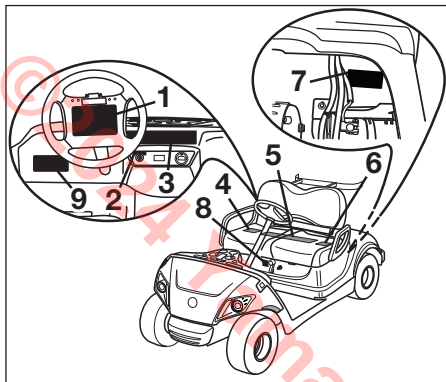
Yamaha Golf-Car Company makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and fitness of merchantability and fitness for a particular purpose which exceed the obligations and time limits stated in this warranty are hereby disclaimed by Yamaha Golf-Car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

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

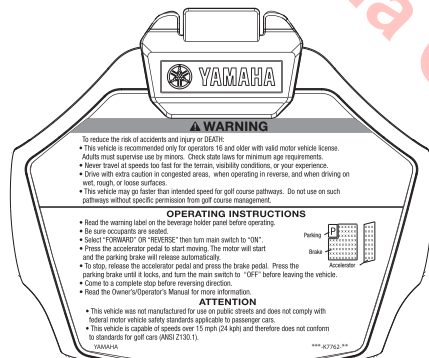
IMPORTANT LABELS

SAFETY AND INSTRUCTION LABELS

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



1



IMPORTANT LABELS

2



3

2

3

⚠ 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 from driver's seat only.
- This vehicle is restricted to 2 occupants per bench seat.
- Do not start vehicle until all occupants are seated.
- Remain seated and hold on when in motion.
- Keep entire body inside vehicle.

YAMAHA

- Drive slowly in turns.
- Drive 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 or ride while distracted or under the influence of alcohol or drugs.

DRIVER UNDER 16

*** K7768-**

4



5

	⚠ WARNING	⚠ AVERTISSEMENT	
	GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. A fire or explosion could cause SEVERE INJURY or DEATH. • Keep heat, sparks, and open flame away from fuel tank and fuel lines. • Do not add fuel while engine is running or hot. • Do not modify fuel system. • Services should be performed by dealer or qualified personnel. YAMAHA	OPERATION AT HIGHER SPEEDS COULD CAUSE LOSS OF CONTROL THAT COULD RESULT IN SEVERE INJURY OR DEATH. • Do not tamper with governor to increase speed.	L'ESSENCE EST HAUTEMENT FLAMMABLE ET EXPLOSIF. Un feu ou une explosion pourraient provoquer la BLESSURE SEVERE ou LA MORT. • Garder étincelles, flammes et chaleur loin de réservoir à essence et des tuyaux carburant. • Ne pas ajouter d'essence pendant que le moteur est chaud. • Ne pas modifier le système d'alimentation. • Toute révision doit être faite chez le fournisseur ou par du personnel qualifié.
		L'OPERATION A UNE PLUS HAUTE VITESSE POURRAIT PROVOQUER LA PERTE DE CONTROLE QUI POURRAIT S'ENSUIVRE DANS LA BLESSURE SEVERE ou LA MORT. • Nes pas toucher au régulateur afin d'augmenter la vitesse.	

*** 402397-**

IMPORTANT LABELS

6

DATE OF CONSTRUCTION: *** **** MY****

YAMAHA MOTOR POWERED PRODUCTS CO., LTD

200-1 SAKAGAWA, KAKEGAWA, JAPAN

NOMINAL SYSTEM VOLTAGE: **V

GROSS OUTPUT: **. ** hp (** kW) MAX. BATTERY WEIGHT: ** kg

FUEL TYPE: UNLEADED GASOLINE

VEHICLE LOAD CAPACITY: ** kg PER SEAT, ** kg BAGWELL

MODEL: ***** **

MAX. BATTERY WEIGHT: ** kg

DRY WEIGHT: *** kg

CE UK CA

-F4236-

7

EMISSION CONTROL INFORMATION
YAMAHA MOTOR CO.,LTD.

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

EF:*****

DISPLACEMENT: *** cc

EMISSION CONTROL SYSTEM: ***

EVAPORATIVE CODE CARB: *****

EVAPORATIVE CODE EPA: *****

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

MAINTENANCE SPECIFICATIONS

IGNITION TIMING: 27 BTDC

NO OTHER ADJUSTMENTS NEEDED

ENGINE OIL: SAE 10W-30

SPARK PLUG GAP: 028-031

The air index of this engine is 3

0 2 4 6 8 10

Most Clean

Least Clean

Note: The lower the Air Index, the less Pollution

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

[] Moderate (250 hours) [] Intermediate (500 hours) [X] Extended (1000 hours)

Check owner's manual for further details.

YAMAHA

EMISSION CONTROL INFORMATION
YAMAHA MOTOR CO.,LTD.

THIS ENGINE MEETS U.S. EPA EXH/EVAP REGS FOR ****.

EF:*****

DISPLACEMENT: *****

EMISSION CONTROL SYSTEM: ***

EVAPORATIVE CODE EPA: *****

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE

MAINTENANCE SPECIFICATIONS

IGNITION TIMING: 27 BTDC

ENGINE OIL: SAE 10W-30

SPARK PLUG GAP: 028-031

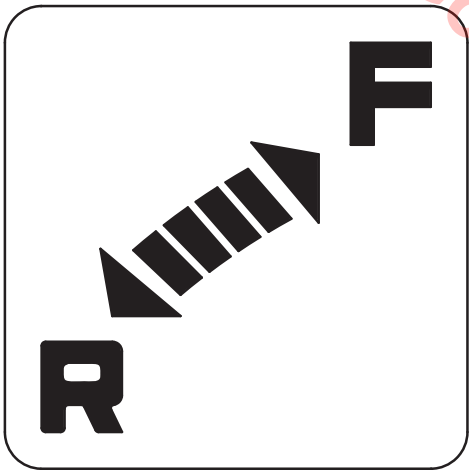
Check owner's manual for further details.

YAMAHA

Not Certified for sales in CALIFORNIA.

-F179T-

8



IMPORTANT LABELS

9

WARNING

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

- Operating tire pressure: set with tires cold.

Recommended

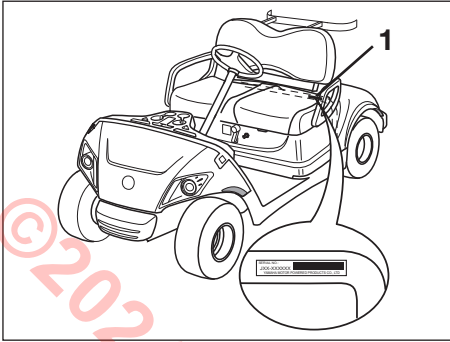
Tire size	Front	Rear
205/65-10, 4ply	151 kPa, 22 psi / 151 kPa, 22 psi	
18x8.50-8, 4ply	110 kPa, 16 psi / 110 kPa, 16 psi	

YAMAHA

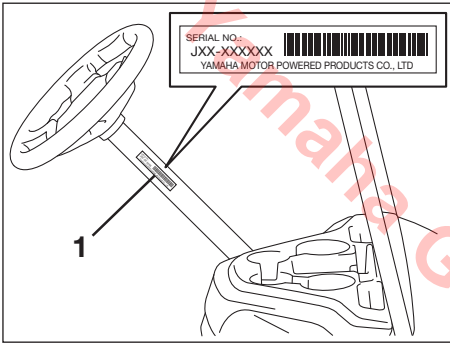
***-F1696-**

2

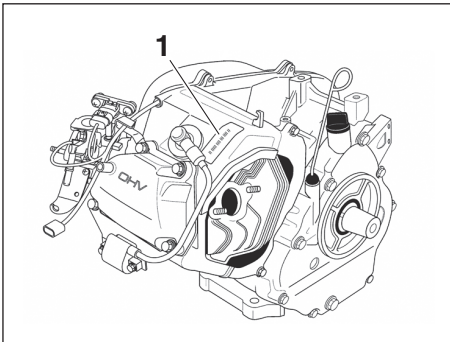
IMPORTANT LABELS



1. Vehicle serial number



1. Vehicle serial number



1. Engine serial number

SERIAL NUMBER

The serial number is identified in the location shown.

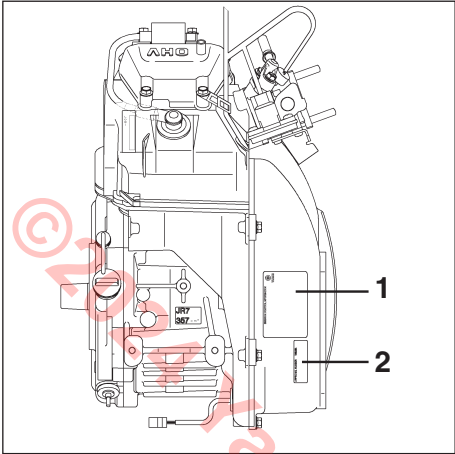
TIP

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.

Serial number:

IMPORTANT LABELS

2



- 1. Engine Information
- 2. APPROVAL NUMBER

EMISSION CONTROL INFORMATION
YAMAHA MOTOR CO.,LTD.


YAMAHA

This engine meets **** California exhaust emission regulations for small off-road engines.
THIS ENGINE MEETS U.S.EPA EXH REGS FOR ****.
EMISSION COMPLIANCE PERIOD : 1000HOURS
EF : ***** DISPLACEMENT : *** cc

EMISSION CONTROL SYSTEM : ***
This engine is certified to operate on unleaded gasoline.
ENGINE OIL : SAE 10W-30 TYPE : SE No other adjustments needed.
The air index of this engine is 3 (California only)

0246810

MOST CLEANLEAST CLEAN

Note : The lower the air index, the less the pollution.
This engine is certified to be emissions compliant for the following use :

☐ MODERATE
(250 HOURS)

☐ INTERMEDIATE
(500 HOURS)

☒ EXTENDED
(1000 HOURS)

Check owner's manual for further details.

EMISSION CONTROL INFORMATION
YAMAHA MOTOR CO.,LTD.


YAMAHA

THIS ENGINE MEETS U.S.EPA EXH REGS FOR ****.
EMISSION COMPLIANCE PERIOD : 1000HOURS
EF : ***** DISPLACEMENT : *** cc

EMISSION CONTROL SYSTEM : ***
This engine is certified to operate on unleaded gasoline.
ENGINE OIL : SAE 10W-30 TYPE : SE

Not certified for sales in CALIFORNIA.

APPROVAL NUMBER YAMAHA

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

SAFETY INFORMATION

Yamaha PTVs 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:

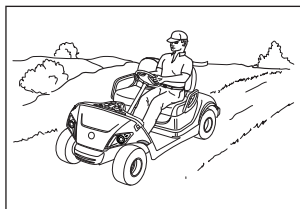
BEFORE OPERATING THE PTV

- Read this Owner's/Operator's manual and all safety and instruction labels on the PTV before operating.
- Perform the pre-operation checks found in Section 5 of this manual.
- Only authorized people should drive the PTV, from the driver's side only, and only in designated areas.
- Do not allow more than two occupants per seat. This PTV is restricted to two occupants, unless equipped with a rear seat.
- Do not operate the PTV while under the influence of alcohol or drugs; their effect on vision and judgment make operating a PTV dangerous.
- Do not operate the PTV on public streets, roads or highways; unless allowed by law or the local regulating authority.



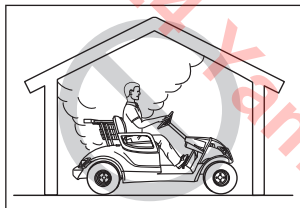
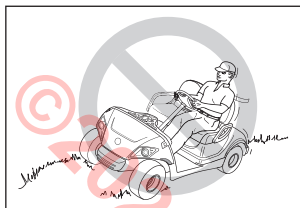
WHILE OPERATING THE PTV

- Keep your entire body inside the PTV, remain seated, and hold on when the car is in motion.
- Do not start the PTV until all occupants are seated.
- Keep your hands on the steering wheel and your eyes on the path ahead.



SAFETY INFORMATION

3



- 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 PTV to match the terrain.
 - Avoid turning the steering wheel too sharply at higher speeds to avoid tipping or rolling the vehicle.
 - Always drive slowly straight up or straight down slopes – never at an angle to avoid tipping or rolling the vehicle.
-
- Do not run the engine indoors. Exhaust gas is poisonous and could result in carbon monoxide poisoning.
 - Do not make any modification or addition which affects capacity or safe operation, or make any changes not in accordance with the owner's/operator's manual.

SAFETY INFORMATION

Like all machines, PTVs can cause injury if improperly used or maintained.

Experience has shown that PTVs are safe when operated in accordance with the safety warnings affixed to every PTV.

DRIVER QUALIFICATIONS

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

WARNING

Do not operate PTVs when under the influence of alcohol or drugs. Death or serious personal injury can result from failing to comply with the safety and warning instructions affixed to the PTV.

HAZARD PREVENTION

Drivers should be mindful of road hazards, and avoid dangerous situations that may include the following:

- **Steep Grades** – Where steep grades exist, restrict PTV to designated roadway or path, and descend slowly with foot on the brake.

WARNING

Descend steep grades slowly with foot on brake. Death or serious personal injury can result from failing to comply with the safety and warning instructions affixed to the PTV.

- **Sharp Turns, Blind Corners and Bridge Approaches** – Adhere to all warning signs and take proper precautions to avoid the hazard.
- **Wet Areas** – Wet grass may cause a PTV to lose traction and may affect stability. Vehicle operators should reduce speed in wet areas or during periods of inclement weather.

SAFETY INFORMATION

3

- **Loose Terrain** – Avoid areas of loose terrain which may cause a PTV to lose traction and affect stability. Take notice of conditions and reduce speed when driving on uneven or loose terrain.
- **Pedestrian Areas** – Avoid areas with pedestrian traffic or congested areas whenever possible to prevent accidents. If it is impractical to avoid these areas, always remember that pedestrians have the right of way. When approaching pedestrian or congested areas always reduce speed, drive slowly, use caution and watch for pedestrians.

MAINTENANCE REQUIRED FOR PTV SAFETY

Practice the following to help ensure the safety of PTV occupants:

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

SAFETY PRECAUTIONS DURING MAINTENANCE

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

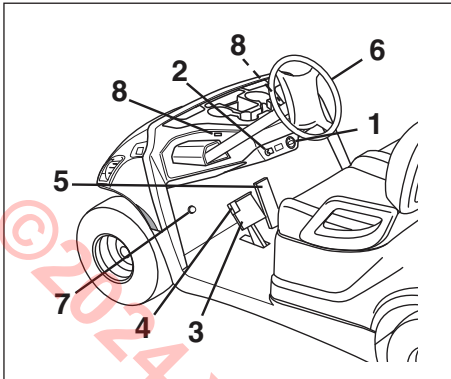
- Properly immobilize PTV before beginning any maintenance to avoid any unexpected vehicle movement.
- Properly block chassis before working underneath PTV to avoid any unexpected vehicle movement.
- When working on the fuel system or the battery, do not smoke, or allow any sparks or open flames near the vehicle, to avoid any fires or explosions.
- Use only properly insulated tools when working around batteries to avoid electrical shock or damage to the electrical system.
- Maintain all safety devices including brakes, steering mechanisms, warning devices and governors, in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, the 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 PTVs.
- 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.

SAFETY INFORMATION

FUEL HANDLING/STORAGE

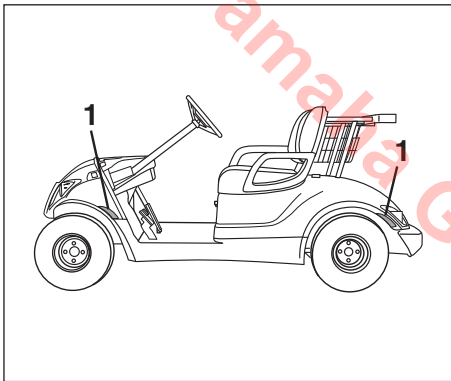
Take the following precautions to ensure maintenance worker safety:

- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements to avoid any fires or explosions.

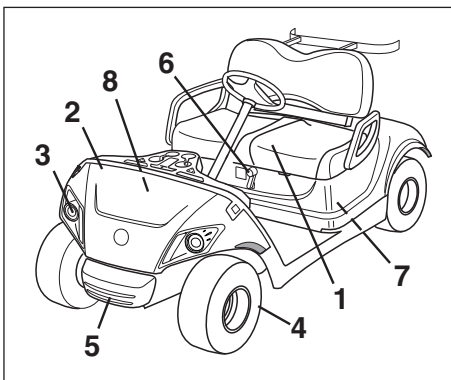


FEATURES

1. Engine/oil warning light/fuel gauge/ hour meter
2. Main/Light switch
3. Brake pedal
4. Parking brake pedal
5. Accelerator pedal
6. Steering wheel
7. Horn switch
8. USB ports

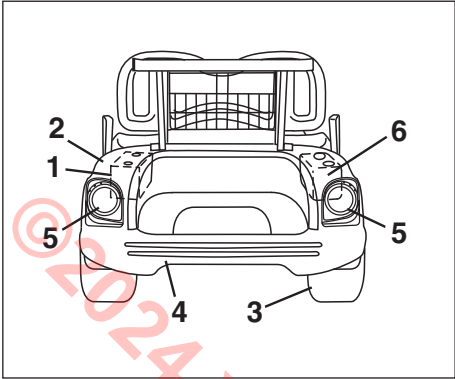


1. Reflector



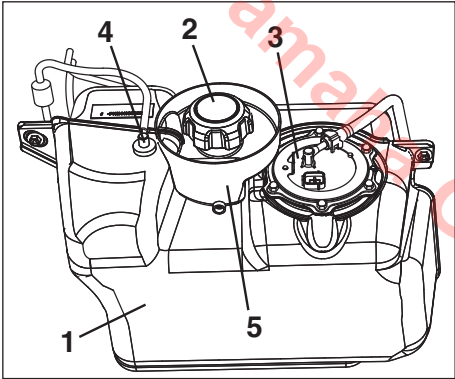
1. Seat
2. Front body
3. Headlights
4. Front tire
5. Front bumper
6. Drive select lever
7. Fuses
8. USB fuse

CONTROLS



- 1. Battery
- 2. Rear body
- 3. Rear tire
- 4. Rear bumper
- 5. Taillights
- 6. Fuel tank

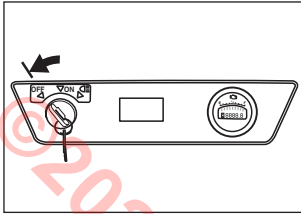
4



- 1. Fuel tank
- 2. Fuel cap
- 3. E.F.I. fuel pump
- 4. Fuel tank vent
- 5. Cover filler funnel

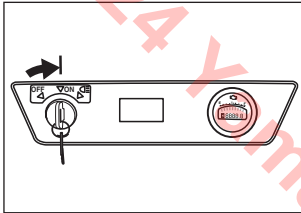
MAIN SWITCH

The main switch controls the following items:



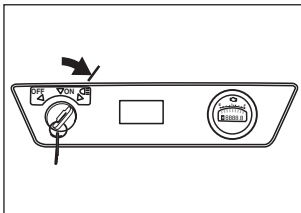
“OFF”

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



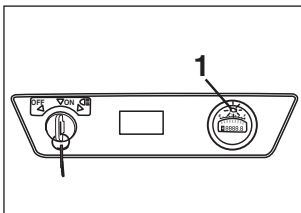
“ON”

The electrical power circuit is switched on. The PTV 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.



1. Engine/oil warning light

ENGINE/OIL WARNING LIGHT

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

NOTICE

If the light comes on, stop the engine, check the engine oil level and add oil as necessary. (See page 22).

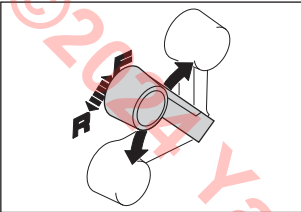
When the engine/oil warning light is flashing while the key is on, there may be a problem with the fuel injection system, which may affect performance, emissions and fuel economy or cause damage to the fuel injection system or engine.

CONTROLS

NOTICE

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

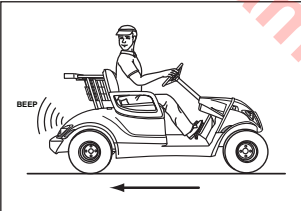
4



DRIVE SELECT LEVER

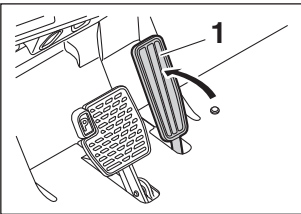
The drive select lever is used to shift the PTV into forward or reverse. After coming to a complete stop, move the lever to the desired position.

Lever Position	Car Movement
F	FORWARD
R	REVERSE



TIP

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

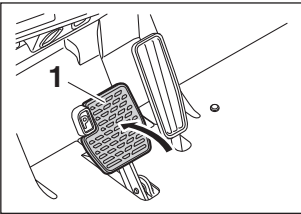


1. Accelerator pedal

ACCELERATOR PEDAL

The accelerator pedal controls the PTV's speed.

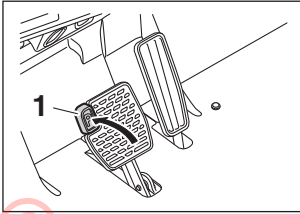
Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease



1. Brake pedal

BRAKE PEDAL

Press down on the brake pedal to stop the PTV.



1. Parking brake pedal

PARKING BRAKE PEDAL

Press down on the parking brake pedal whenever parking the PTV.

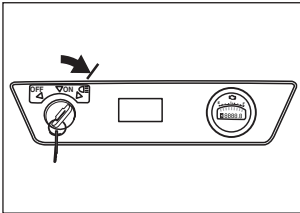
TIP

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

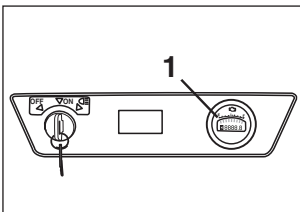
4



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.

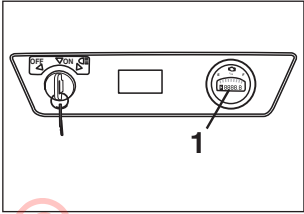


1. Fuel gauge

FUEL GAUGE

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.

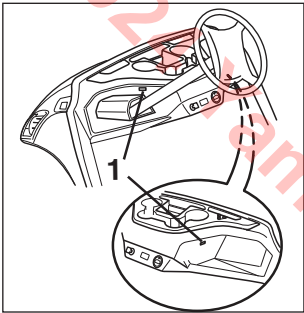
CONTROLS



1. Hour meter

HOUR METER

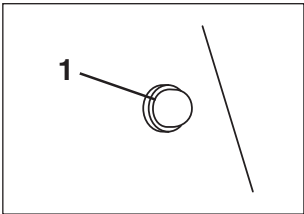
The hour meter displays the total number of hours the PTV has been run. Use the hour meter to determine when scheduled maintenance is due.



1. USB port

USB PORTS

A USB port is located inside the dash on the driver side and passenger side. These can be used to power or charge USB devices or accessories. The USB is only powered when the key is in the ON position.



1. Horn Switch

HORN SWITCH

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

TIP

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

PRE-OPERATION CHECKS

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

WARNING

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

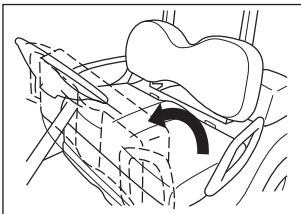
- Remove main switch key.
- Apply parking brake.

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

PRE-OPERATION CHECKS

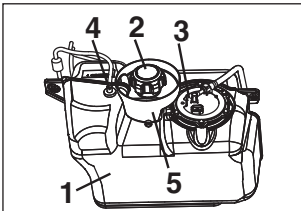
Refer to the Periodic Maintenance and adjustment charts on pages 27 to 31.

5



SEAT

Lift up the seat for checking and servicing.



FUEL SYSTEM

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

WARNING

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

1. Fuel tank
2. Fuel cap
3. E.F.I. fuel pump
4. Fuel tank vent
5. Cover filler funnel

PRE-OPERATION CHECKS

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

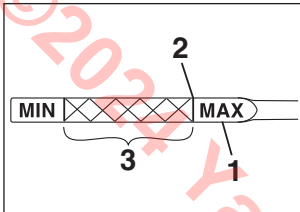
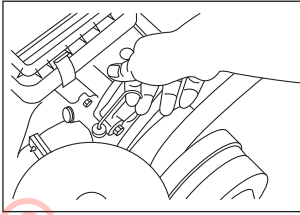
22 L (5.8 US gal)

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

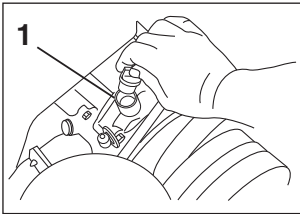
NOTICE

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

PRE-OPERATION CHECKS



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



1. Oil filler hole

ENGINE OIL

With the PTV 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).

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

NOTICE

- 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. 0.5 L (0.5 US qt) of oil.

Recommended oil brand:

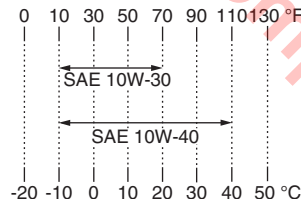


Available oil grade:

API SE type or higher JASO MA or MB

Available viscosity index:

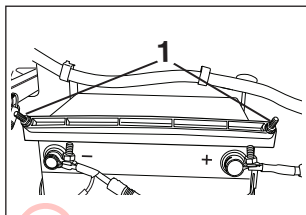
10W-30 or 10W-40



Engine oil capacity:

1.00 L (1.06 US qt)

PRE-OPERATION CHECKS



1. Battery hold-down nuts

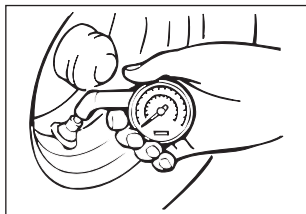
BATTERY

Check that the battery is held securely in place to prevent the battery from being damaged from vibration or jarring. Tighten the battery hold-down nuts if loose. Also check that the battery cap is not missing to prevent battery acid from spilling from the battery. Check the battery terminals for corrosion and tightness.

WARNING

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

5



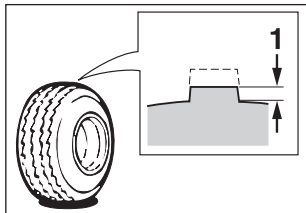
TIRE CONDITION

Tire Air Pressure

Check the tire air pressure before operating the PTV.

Tire pressure:

151 kPa (1.55 kgf/cm², 22 psi)

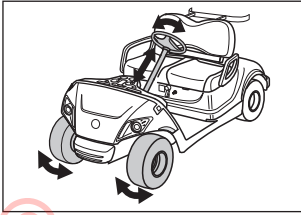


1. Wear limit

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.

PRE-OPERATION CHECKS

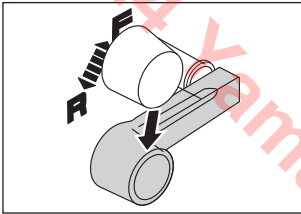


STEERING SYSTEM

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.



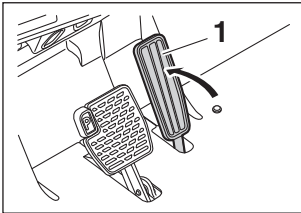
REVERSE ALARM

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

5

PEDAL OPERATION

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

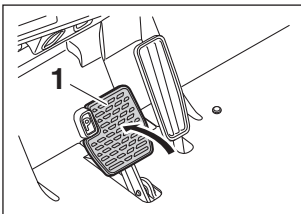


1. Accelerator pedal

Accelerator Pedal

WARNING

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

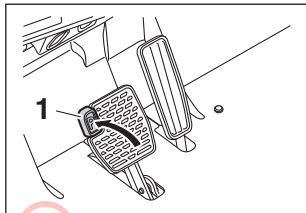


1. Brake pedal

Brake Pedal

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

PRE-OPERATION CHECKS



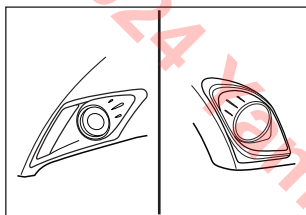
1. Parking brake pedal

Parking Brake Pedal

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

TIP

Release the parking brake by depressing the accelerator pedal.



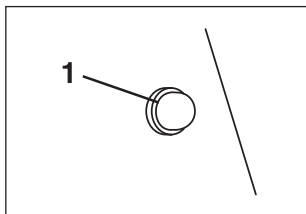
5

HEADLIGHTS/TAILLIGHTS

Ensure the headlights and taillights are operational.

! WARNING

Never operate the PTV 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.



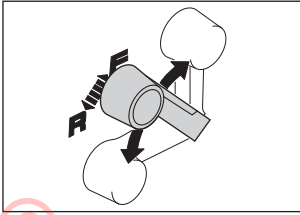
1. Horn Switch

HORN SWITCH

Make sure the horn operates correctly.

BODY AND CHASSIS

Before each use, visually inspect the PTV body and chassis for damaged and/or missing parts.

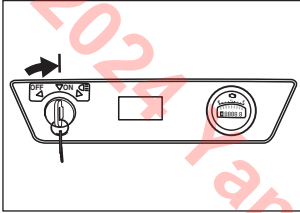


STARTING

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

NOTICE

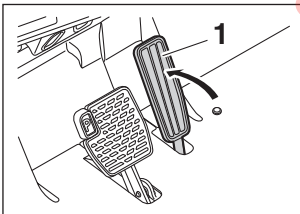
Do not shift from “F” (forward) to “R” (reverse) while the PTV is moving. Transmission damage can result.



2. Turn the main switch to “ON.”

WARNING

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

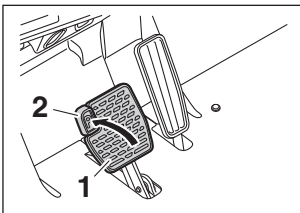


1. Accelerator pedal

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

TIP

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



1. Brake pedal
2. Parking brake pedal

STOPPING

To stop the PTV, gradually press down on the brake pedal.

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

NOTICE

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

MAINTENANCE AND ADJUSTMENT

PERIODIC MAINTENANCE AND ADJUSTMENT CHARTS

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

Even if the vehicle isn't driven for the stated mileage or engine hours, the month maintenance intervals should still be followed. Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

 WARNING

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

NOTICE

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

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

	Remarks	Daily Pre- Operation	40 Rounds 20 hours 100 miles 160 kms (Every month)	250 rds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rds 250 hrs 1200 mls 2000 kms (Every year)	1000 rds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rds 1000 hrs 5000mls 8000 kms (Every 4 years)	Page
PRE-OP	Check engine oil	CS	CS	CS				22
	Check fuel lines for leakage	CS	CS	CS	CS	CS	CS	20
	Check fuel level	CS	CS	CS	CS	CS	CS	20
	Check for loose-ness and corrosion of battery terminals and hold downs	CS	CS	CS	CS	CS	CS	23
	Check brake pedal free play and adjust if necessary	CS	CA	CA	CA	CA	CA	47
	Check steering operation	CS	CS	CS	CS	CS	CS	24

* 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.

*** Do no operate vehicle if discrepancy is found.

MAINTENANCE AND ADJUSTMENT

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

	Remarks	Daily Pre- Operation	40 Rounds 20 hours 100 miles 160 kms (Every month)	250 rds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rds 250 hrs 1200 mls 2000 kms (Every year)	1000 rds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rds 1000 hrs 5000mls 8000 kms (Every 4 years)	Page
PRE-OP	Check tire pressure, tread depth, tire surface for damage	CS	CA	CA	CA	CA	CA	23
	Check body and chassis for damage	CS	CS	CS	CS	CS	CS	25
	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	24
	Check for the proper operation of pedal control area***	CS	CS	CS	CS	CS	CS	24
EVERY MONTH	Check for debris in intake air duct, tubing and connection		CS	CS	CS	CS	CS	39
	Check wear of drive belt		CS	CS	CS	CS	CS	38
	Check operation of Forward / Reverse shifting		CS	CS	CS	CS	CS	26
	Clean / Lube pedal control area		CL	CL	CL	CL	CL	*
EVERY 6 MONTHS	Wash pre-filter, check air cleaner element			S	S	S	S	37
	Check spark plug and plug cap condition** / Check compression			CS	CS	CS	CS	33
	- Check brake cable operation - Inspect for abrasions and damage, and replace if necessary			CS R	CS R	CS R	CS R	46

* 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.

*** Do not operate vehicle if discrepancy is found.

MAINTENANCE AND ADJUSTMENT

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EVERY 6 MONTHS	Check shock absorbers for oil leaks and damaged springs			CS	CS	CS	CS	*
	Check fuel hoses for cracks or damage, and replace if necessary			CS R	CS R	CS R	CS R	*
EVERY YEAR	Replace engine oil				R	R	R	34
	Grease primary and secondary clutch				L	L	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	38
	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	*

* 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.

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	Remarks	Daily Pre- Operation	40 Rounds 20 hours 100 miles 160 kms (Every month)	250 rds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rds 250 hrs 1200 mls 2000 kms (Every year)	1000 rds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rds 1000 hrs 5000mls 8000 kms (Every 4 years)	Page
EVERY YEAR	Perform primary and secondary clutch maintenance: (primary) - Inspect sheaves for wear and damage - Inspect weights/washer and sliders for wear (secondary) - Inspect ramp shoes for wear - 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	*
	Adjust parking brake release				CA	CA	CA	48
	Check tail pipe screen for obstructions				CS	CS	CS	*
	Check transmission oil level and inspect for leakage				CS	CS	CS	43
	Inspect pedal components***				CS	CS	CS	*
EVERY 2 YEARS	Check starter generator brushes for wear and commutator for dirt					CS	S	*

* 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.

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MAINTENANCE AND ADJUSTMENT

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

	Remarks	Daily Pre- Operation	40 Rounds 20 hours 100 miles 160 kms (Every month)	250 rds 125 hrs 600 mls 1000 kms (Every 6 months)	500 rds 250 hrs 1200 mls 2000 kms (Every year)	1000 rds 500 hrs 2500 mls 4000 kms (Every 2 years)	2000 rds 1000 hrs 5000mls 8000 kms (Every 4 years)	Page
EVERY 4 YEARS	Replace transmis- sion oil						R	43
	Check tightness of cylinder head / Adjust valves						CA	*
	Inspect brake shoes and adjust or replace if nec- essary						CS R	*

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

** Related to emission control system.

*** Do no operate vehicle if discrepancy is found.

TIP

Some maintenance items need more frequent service if you drive in unusually wet, dusty, sandy, or muddy areas.

MAINTENANCE AND ADJUSTMENT

EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

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

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

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

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

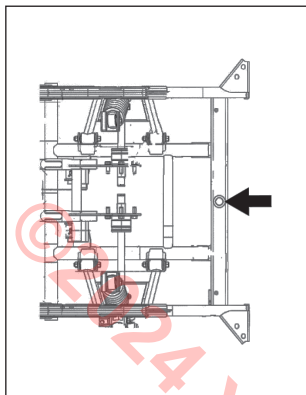
7

TROUBLESHOOTING

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

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

MAINTENANCE AND ADJUSTMENT



REAR LIFTING POINT

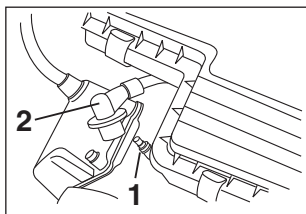
If the rear of the car needs to be lifted for a maintenance procedure, make sure it is lifted at the correct rear lifting point (see arrow).

SPARK PLUG INSPECTION

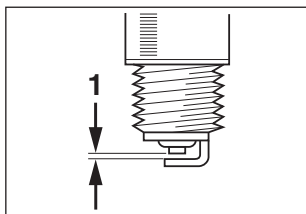
You should periodically remove and inspect the spark plug. Dirty or worn spark plugs can cause poor performance.

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.



1. Spark plug
2. Spark plug cap



1. Gap

1. Check for discoloration and remove carbon deposits with a spark plug cleaner or wire brush. The normal electrode color will be tan.
2. Check the spark plug type, and check the spark plug gap with a feeler gauge.

Standard spark plug:

BPR2ES

Spark plug gap:

0.7 - 0.8 mm (0.028 - 0.031 in.)

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

Spark plug torque:

20 N·m (2.0 kgf·m, 14.5 lb·ft)

MAINTENANCE AND ADJUSTMENT

ENGINE OIL REPLACEMENT

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

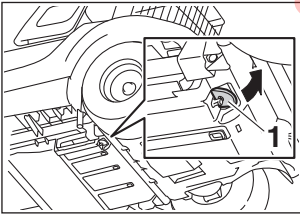
WARNING

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.

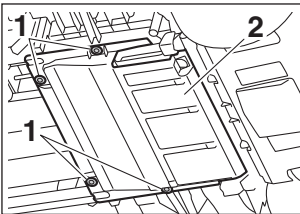
NOTICE

To remove the oil from the engine, an oil extraction tool can be used to extract the oil via the dipstick feed hole instead of draining out the drain plug.

2. Block rear tires and lift front end of car. Secure car with car stands.
3. Release the rubber tab.



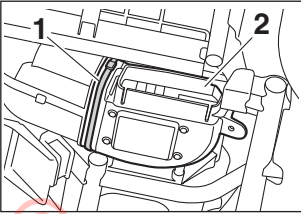
1. Rubber tab



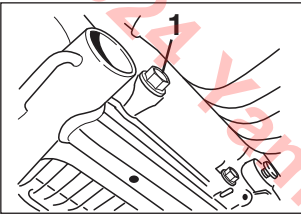
1. Bolt
2. Lower panel

4. Remove the lower panel by removing the bolts.

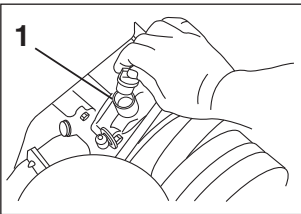
MAINTENANCE AND ADJUSTMENT



- 1. Tie strap
- 2. Exhaust duct



- 1. Drain plug



- 1. Oil filler hole

- 5. Remove the tie strap, and then remove the exhaust duct.

- 6. Place an oil pan under the engine drain plug.
- 7. 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.

- 8. Install the drain plug, along with a new drain plug gasket, fingertight before tightening to the following torque:

Drain plug torque:
31 N·m (3.1 kgf·m, 23 lb·ft)

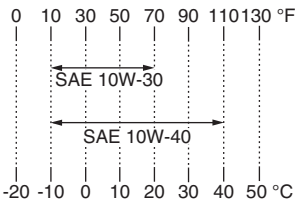
- 9. Add the correct quantity of oil through the oil filler hole.

Recommended oil brand:



Available oil grade:
API SE type or higher JASO MA or MB

Available viscosity index:
10W-30 or 10W-40



Engine oil capacity:
1.00 L (1.06 US qt)

MAINTENANCE AND ADJUSTMENT

NOTICE

Use care not to fill past the MAX dipstick mark, and be sure no foreign material enters the crankcase.

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

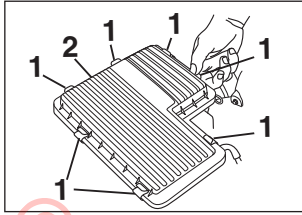
10. Install the exhaust duct, and then install the tie strap.
11. Install the lower panel by installing the bolts.
12. Secure the rubber tab.

WHY YAMALUBE

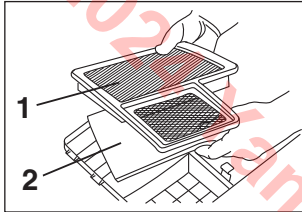
YAMALUBE oil is a Genuine YAMAHA Part born of the engineers' passion and belief that engine oil is an important liquid engine component. We form teams of specialists in the fields of mechanical engineering, chemistry, electronics and track testing, and have them develop the engine together with the oil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



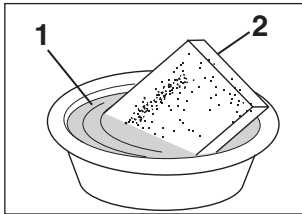
MAINTENANCE AND ADJUSTMENT



1. Air filter cover clips
2. Air filter cover



1. Air filter
2. Pre-filter



1. Soap and water
2. Foam element

AIR FILTER

To remove the air filter elements:

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

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

NOTICE

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

Inspection and cleaning:

3. Wash the foam pre-filter in soap and water. Allow it to dry.
4. Check the filter element. If damaged or dirty, replace it.

NOTICE

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

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

NOTICE

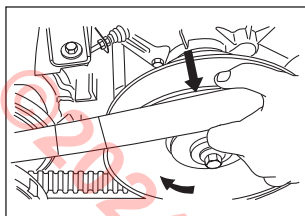
The pre-filter has a notch on one side. It will only fit in the case one way. Serious engine damage can result from improperly positioned filter.

MAINTENANCE AND ADJUSTMENT

DRIVE BELT

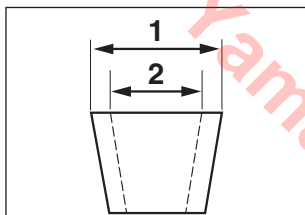
To remove the drive belt:

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 drive belt against the following specification. If the belt shows excessive wear or damage, replace the belt with a new one.



1. New: 32.0 mm (1.26 in.)
2. 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.

CLUTCH

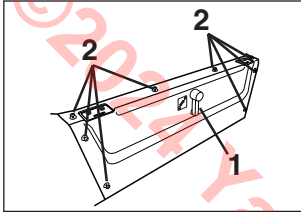
Maintenance is required each year for proper drive operation. Refer to the Periodic Maintenance chart in this owner's manual.

MAINTENANCE AND ADJUSTMENT

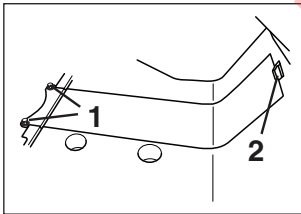
AIR DUCT

Check for debris in intake air duct, tubing and connections:

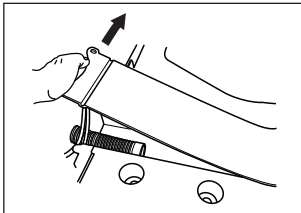
1. Park the PTV on a flat, level surface and apply the parking brake.
2. Remove the floor mat.
3. Remove the seat.
4. Remove the drive select lever.
5. Unscrew and remove the 8 retaining pins and remove the front panel.



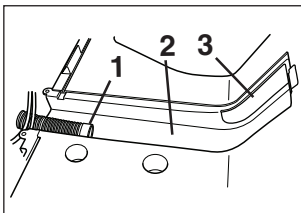
1. Drive select lever
2. Retaining pins



1. Plastic rivets
2. Tab



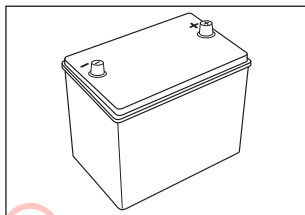
7. Lift up on the floor panel and slide the panel tab out of the slot. Remove the panel.



1. Intake tube
2. Floor trough
3. Intake air opening

8. Clean out any dirt or debris from the intake tube, the floor trough and the intake air opening.
9. After removing debris, install the floor panel, front panel, drive select lever, seat and the floor mat.

MAINTENANCE AND ADJUSTMENT



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 AND ADJUSTMENT

FUSE REPLACEMENT

WARNING

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

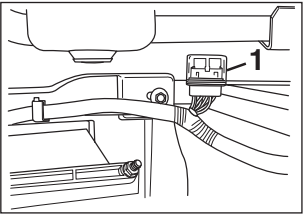
NOTICE

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

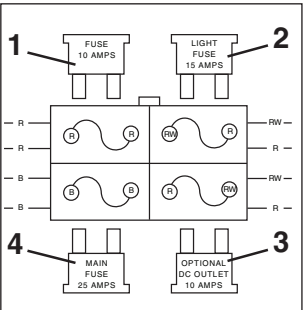
The fuse holder is located under the seat. The USB fuse is located under the cup holder.

To access the fuse holder

1. Lift up the seat. (See page 20.)
2. Locate the in-line fuse holder in the battery compartment.
3. Pull the fuse holder cover off.



1. Fuse holder cover



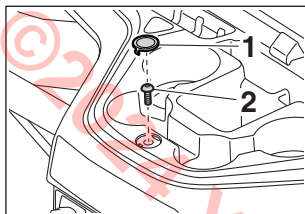
1. DC outlet Mini fuse (10.0 A, 32V)
2. Light Mini fuse (15.0 A, 32V)
3. Fuse Mini fuse (10.0 A, 32V)
4. Main Mini fuse (25.0 A, 32V)

MAINTENANCE AND ADJUSTMENT

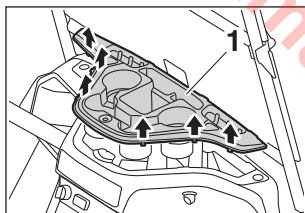
4. Pull the fuse out and inspect it. Replace the fuse if necessary.
5. Install the fuse holder cover.
6. Close the seat.

To access the USB fuse

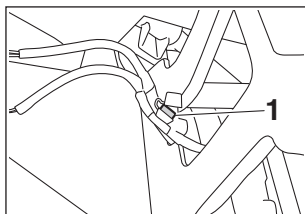
1. Remove the ornament, and then remove the bolt.



1. Ornament
2. Bolt



1. Cup holder



1. USB Blade fuse
(5.0 A, 32V)

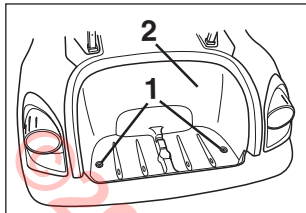
3. Pull the fuse out and inspect it. Replace the fuse if necessary.
4. Install the cup holder.
5. Install the bolt, and then install the ornament.

MAINTENANCE AND ADJUSTMENT

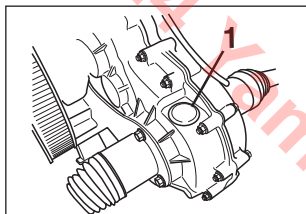
TRANSMISSION OIL

To check the transmission oil level:

1. Place the PTV on a flat, level surface.
2. Remove two bolts and remove the rear floor cover.



1. Bolt
2. Rear floor cover

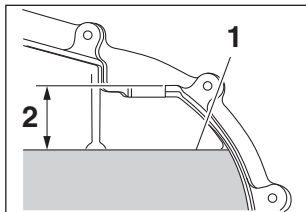


1. Oil fill plug

3. Clean the area around the transmission oil fill plug.

NOTICE

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



1. Transmission oil
2. Correct oil level

4. The oil level should be specified level from the milled surface of the oil fill hole.

Transmission oil level:

135 mm

5. The level is low, add sufficient oil of the recommended type to raise it to the specified level.

Recommended oil brand:



Available viscosity index:

SAE 80W-90 or SAE 90

Transmission oil change quantity:

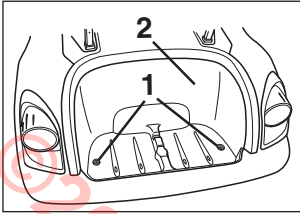
475 cc (475 mL, 0.50 US qt)

6. Install the transmission oil fill plug.
7. Install the rear floor cover and secure with two bolts.

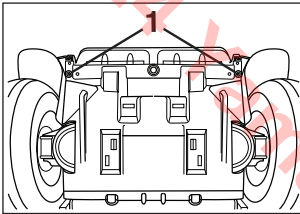
MAINTENANCE AND ADJUSTMENT

To replace transmission oil:

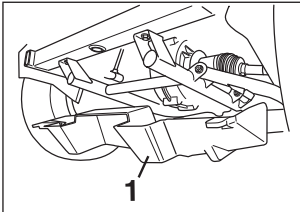
1. Place the PTV on a flat, level surface.
2. Remove two bolts and the rear floor cover.
3. Block rear tires and lift front end of PTV. Secure PTV with car stands.



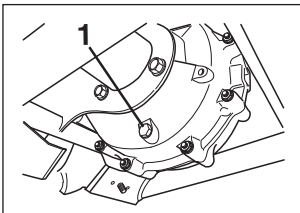
1. Bolt
2. Rear floor cover



1. Panel bolts



1. Lower panel



1. Oil drain plug

4. Remove the two panel retaining bolts for the lower panel.

5. Tip the rear of the lower panel down and unhook the front of the panel to remove the panel.
6. Place an oil pan under the transmission.

7. Remove the drain plug from the transmission and allow the oil to drain completely.

TIP

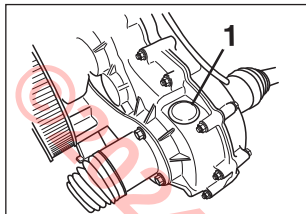
Dispose of the oil in an environmentally safe way, such as taking oil to an oil collection station.

MAINTENANCE AND ADJUSTMENT

8. Install the drain plug.

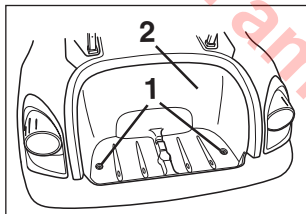
Transmission oil drain bolt tightening torque:

4.3 N·m (0.43 kgf·m, 3.1 lb·ft)



1. Oil fill plug

9. Remove the oil fill plug on top of the transmission.
10. Refill the transmission case with recommended oil and install the oil level plug.



1. Bolt
2. Rear floor cover

11. Install the lower panel and exhaust duct tabs.
12. Install the rear floor cover and secure with two bolts.

Recommended oil brand:



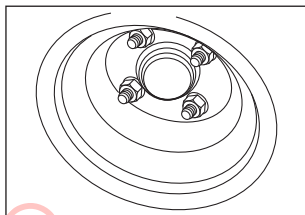
Available viscosity index:

SAE 80W-90 or SAE 90

Transmission oil change quantity:

475 cc (475 mL, 0.50 US qt)

MAINTENANCE AND ADJUSTMENT



WHEEL REPLACEMENT

WARNING

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

To remove and install a wheel on your PTV:

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

Wheel nut tightening torque:

100 N·m (10 kgf·m, 74 lb·ft)

BRAKE ADJUSTMENT

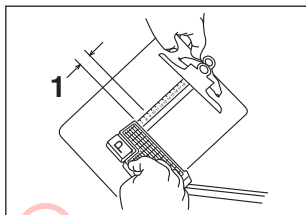
The brakes on your PTV are self-adjusting.

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

WARNING

Consult your Yamaha dealer before using your PTV 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.

MAINTENANCE AND ADJUSTMENT



1. Brake pedal free play

BRAKE PEDAL FREE PLAY ADJUSTMENT

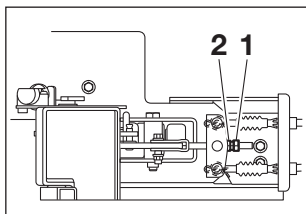
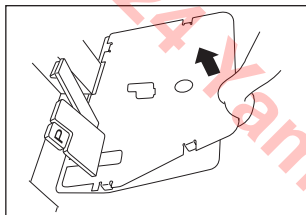
Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

Brake pedal free play:

50-55 mm (1.97-2.17 in.)

To adjust the brake pedal free play:

1. Remove the floor mat and service lid from the floor of the PTV.



1. Locknut
2. Adjusting nut

2. If the free play distance needs adjusting, loosen the lock nut and turn the adjusting nut in or out until the free play specification is met. Then tighten the lock nut in place.

WARNING

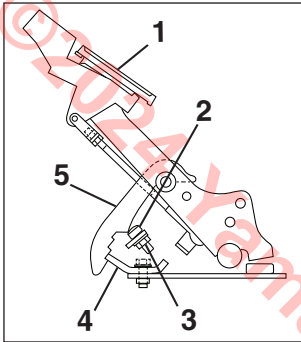
Do not over-tighten the brake cables. Over-tightening will increase brake wear and affect overall performance of PTV. Premature brake wear can result. Death or serious personal injury can result from failing to comply with the warning labels in this manual.

MAINTENANCE AND ADJUSTMENT

PARKING BRAKE RELEASE ADJUSTMENT

NOTICE

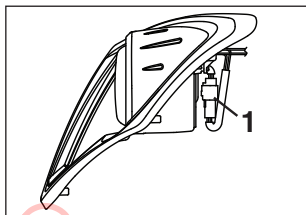
Before performing parking brake release adjustment, adjust brake pedal free play.



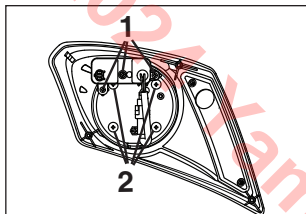
1. Parking brake pedal
2. Bolt
3. Locknut
4. Brake nail
5. Sector

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

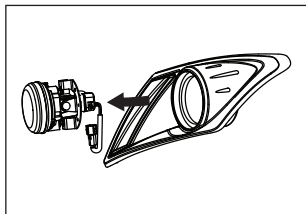
MAINTENANCE AND ADJUSTMENT



1. Wire connector



1. Screws (three)
2. Screws (four)



7

REPLACING A HEADLIGHT UNIT

This model is equipped with LED-type headlights.

If a headlight does not come on, replace it as follows:

1. Disconnect the wire connector from the headlight assembly.
2. Remove the three screws and remove the light control unit.
3. Remove the four screws to remove the headlight assembly from the holder.
4. Remove the headlight assembly from the holder.
5. Install new headlight assembly into holder and secure with the four screws.
6. Install the light control unit and fasten with three screws.
7. Connect the wire connector to the headlight assembly.

MAINTENANCE AND ADJUSTMENT

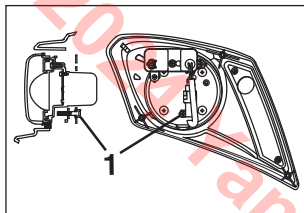
ADJUSTING A HEADLIGHT

NOTICE

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

TIP

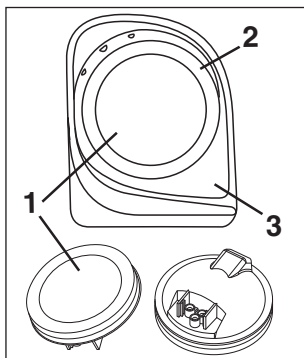
The screw can be accessed from under the fender.



1. Adjusting screw

1. 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.

REPLACING A TAILLIGHT UNIT



1. Bulb assembly
2. Rubber grommet
3. Bezel assembly

1. If a taillight does not come on, replace the taillight unit removing the rubber grommet from the bezel assembly.
2. Remove the wire connector, replace the taillight unit, and reinstall by fitting the rubber grommet over the taillight unit and bezel.

STORAGE

Fill up the fuel tank with new fuel and add recommended YAMALUBE Fuel Stabilizer and Conditioner per the instructions listed on the container. Operate the vehicle for at least 5 minutes to distribute the 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. Perform the following preparations when storing your PTV for extended periods of time:

NOTICE

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

TIP

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

DRAINING FUEL

WARNING

Gasoline and its vapors are highly flammable and explosive. Death or serious personal injury can result from failing to comply with the safety instructions in this manual.

- 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 to avoid potential fire hazard.

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 151 kPa (1.55 kgf/cm², 22 psi).
2. Clean exterior of the PTV and apply a rust inhibitor.
3. Cover the PTV with a breathable cover and store it in a dry, well-ventilated area.

STORAGE

BATTERY PREPARATION

1. Remove the battery from your PTV 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 car 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.

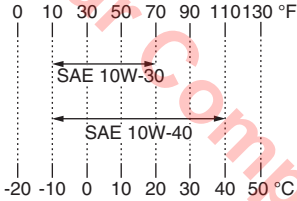
4. Clean the top of the battery with a solution of baking soda and water, as necessary, to remove corrosion.

GENERAL SPECIFICATIONS

Items	DR2 PTV QUIETECH
Dimensions:	
Overall length	2380 mm (93.7 in.)
Overall width	1200 mm (47.2 in.)
Overall height (steering height)	1230 mm (48.4 in.)
Overall height (sun top height)	1825 mm (71.9 in.)
Height of floor	325 mm (12.8 in.)
Wheelbase	1635 mm (64.4 in.)
Tread:	
Front	890 mm (35.0 in.)
Rear	980 mm (38.6 in.)
Ground clearance	140 mm (5.5 in.)
Weight:	
Curb weight (With Battery, Oil & Gasoline)	323 kg (712 lb)
Curb weight (With Sun top, W/S, Battery, Oil & Gasoline)	353 kg (778 lb)
Performance:	
Maximum speed	30.5 km/h (19.0 mph)
Maximum reverse speed	20.8 km/h (13.0 mph)
Minimum turning radius	2.9 m (9.5 ft)
Seating capacity	Two occupants per seat
Hill climbing capacity	15°
Fuel Tank Capacity:	22 L (5.8 US gal)

SPECIFICATIONS

ENGINE

Items	DR2 PTV QUIETECH
Description:	
Engine type	4-stroke, Gasoline, OHV
Number of cylinders	Single
Displacement	357 cm ³
Bore × stroke	85 × 63 mm (3.30 × 2.48 in.)
Compression ratio	8.1:1
Output / Gross	9.17 kw (12.29 hp) / 3600 rpm
Output / Net	6.71 kw (9.00 hp) / 3600 rpm
Cooling system	Forced air-cooled
Starting system	Electric-Starter/Generator
Ignition system	TCI
Spark plug type	BPR2ES
Spark plug gap	0.7-0.8 mm (0.028-0.031 in.)
Lubrication system	Splash
Recommended oil brand	
Available oil grade	API SE type or higher JASO MA or MB
Available viscosity index	10W-30 or 10W-40 
Engine oil capacity	1.00 L (1.06 US qt)

TRANSMISSION

Items	DR2 PTV QUIETECH
Transmission:	
Type	V-belt automatic centrifugal engagement
V-belt width and outer line length	32.0 × 998 mm (1.26 × 39.29 in.)
V-belt wear limit	27.0 mm (1.06 in.)
Governor:	
Type	Oil bath flyweight
Differential/reduction gear:	Secondary reduction system helical gear Secondary reduction ratio: Forward 9.79:1 / Reverse 14.36:1 Differential type bevel gear Lubricant/capacity: 475 cc (475 ml, 0.50 US qt) SAE 80W-90 or SAE 90 gear oil

BATTERIES

Items	DR2 PTV QUIETECH
Battery:	BCI group 24, RC: minimum 75 min CCA: minimum 400A

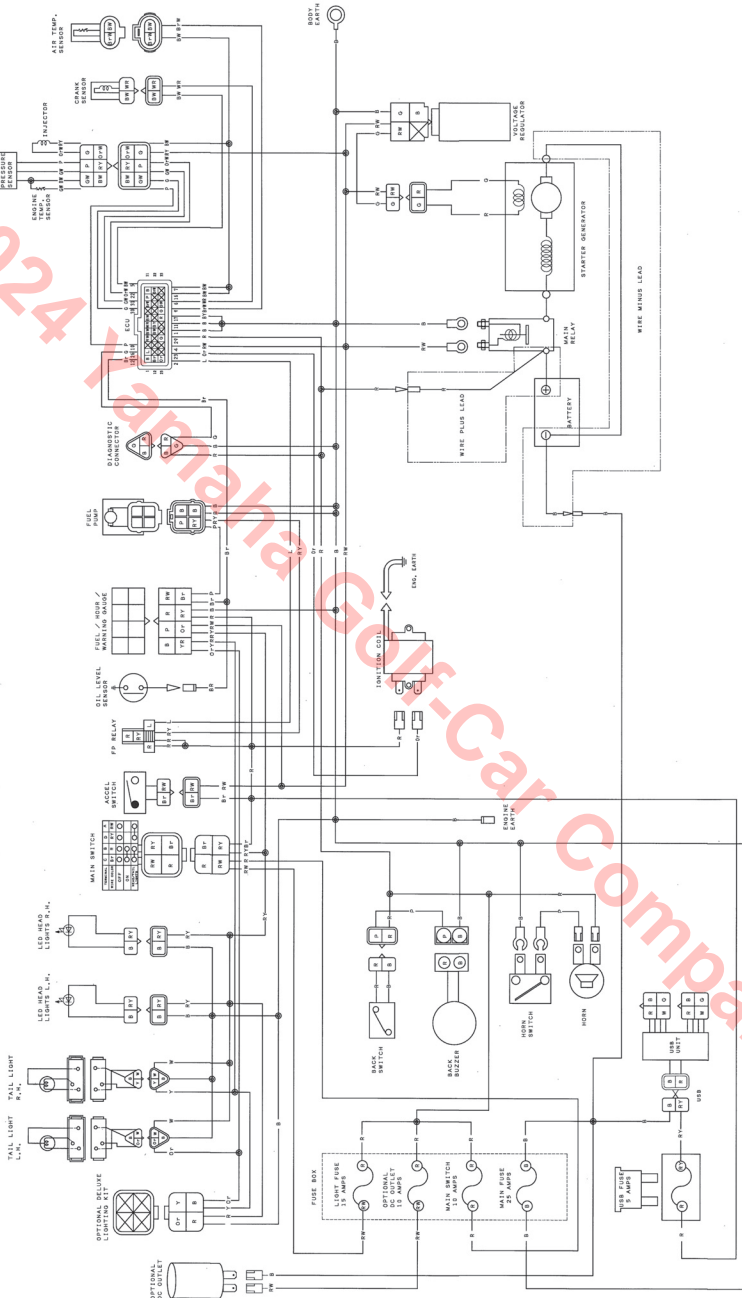
CHASSIS

Items	DR2 PTV QUIETECH
Suspension:	
Front	Independent (Coil-over strut type)
Rear	Independent (Coil-over strut type)
Steering system:	
Type	Rack and Pinion
Steering angle (L.H.)	1.85 turn
Steering angle (R.H.)	1.85 turn
Brakes:	
Brake system	Mechanical drum brake on each rear wheel with self-adjusters
Type of brake	Dual internal expanding shoe Leading/trailing shoes (self-adjusting)

SPECIFICATIONS

Items	DR2 PTV QUIETECH
Brake pedal freeplay linkage adjustment	50-55 mm (1.97-2.17 in.)
Parking brake:	
Type	Foot type; parking brake with automatic release.
Wheel:	
Tire size: (Width [mm]) / (Aspect ratio)-(Rim size [in]) Ply rating	
Front	205 / 65 - 10 4 PR
Rear	205 / 65 - 10 4 PR
Rim size: (Dia. [in]) × (Width [in]) (Offset [mm])	10 × 6.0 +6
Tire pressure:	151 kPa (1.55 kgf/cm ² , 22 psi)
Lights:	
Headlight	LED
Taillight	12 V BULB

DR2 PTV QUIETECH WIRING DIAGRAM



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