

YAMAHA

OWNER'S/
OPERATOR'S
MANUAL

MULTI-
PASSENGER
VEHICLE

G20A

WARNING

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

YAMAHA

LIT-CALIF-65-01

INTRODUCTION

Congratulations on your purchase of a Yamaha Multi-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.

**TECHNICAL SERVICE DEPT
GOLF CAR SALES GROUP
YAMAHA MOTOR
MANUFACTURING CORP.
of AMERICA**

**G20A
OWNER'S/OPERATOR'S
MANUAL**

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Manufacturing Corporation
of America
1st edition**

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Yamaha Motor Manufacturing
Corporation of America
is expressly prohibited.**

**Printed in U.S.A.
P/N LIT-19626-20-00**

IMPORTANT MANUAL INFORMATION

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



The Safety Alert Symbol means **ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!**

WARNING

Failure to follow WARNING instructions could result in severe injury or death to the vehicle occupants, a bystander, or a person inspecting or repairing the utility car.

CAUTION

This message describes special precautions that must be taken to avoid damage to the vehicle.

NOTE:

This message provides additional key information.

NOTE:

- 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 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 vehicle and should remain with the car when resold.

WARNING

Read and understand this manual completely before operating your vehicle.

CONTENTS

WARRANTY

1

IMPORTANT LABELS

2

OCCUPANT SAFETY

3

MAINTENANCE SAFETY PROGRAM

4

CONTROLS

5

PRE-OPERATION CHECKS

6

OPERATION

7

MAINTENANCE

8

STORAGE

9

SPECIFICATIONS

10

WIRING

11

WARRANTY

YAMAHA MOTOR MANUFACTURING CORPORATION OF AMERICA G20A MULTI-PASSENGER VEHICLE LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that any new Multi-Passenger Vehicle purchased from an authorized Yamaha dealer in the United States will be free from defects in material and workmanship for the period of time stated herein, subject to the stated limitations.

THE PERIOD OF WARRANTY for any G20A will be one year from date of purchase for parts and labor.

The warranty shall cover the entire car except for batteries, tires and rims, which are warranted by their respective manufacturers.

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 machine's warranty period. All parts replaced under warranty become property of Yamaha Motor Corporation, U.S.A.

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 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. Modification or alteration that affects the Multi-Passenger Vehicle's condition, operation, performance, or durability.
- f. Damage due to improper transportation.
- g. Acts of God (i.e. lightning, hail damage, flooding, fire, etc.)

SPECIFIC EXCLUSIONS from this warranty shall include any parts replaced due to normal wear or routine maintenance, including oil, air filter elements, brake shoes, spark plugs, starter and clutch drive belts, and other damage such as scratches, dents, or deformation. Any charges incurred in transporting a Multi-Passenger Vehicle 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 Multi-Passenger Vehicle as specified in the appropriate Owner's / Operator's Manual;
2. Give notice to an authorized Yamaha dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs by the dealer's authorized representative.

WARRANTY TRANSFER: To transfer any remaining warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha Golf Car Dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

YAMAHA MOTOR CORPORATION, U.S.A. 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 MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN 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 MOTOR MANUFACTURING
CORPORATION OF AMERICA
Newnan, Georgia 30265-1320

Effective Date: 8/1/99
LIT-13710-20-00

WARRANTY

1

YAMAHA MOTOR MANUFACTURING CORPORATION OF AMERICA SPECIALTY VEHICLE ENGINES EMISSION CONTROL WARRANTY

YOUR WARRANTY RIGHTS AND OBLIGATIONS

In compliance with the California Air Resources Board, Yamaha Motor Manufacturing Corporation of America is pleased to explain the emission control system warranty on your 1996 or later specialty vehicle engine. New Yamaha specialty vehicle engines must be designed, built and equipped to meet stringent anti-smog standards. Yamaha must warrant the emission control system on your specialty vehicle engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your specialty vehicle engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Yamaha will repair your specialty vehicle engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 1996 and later specialty vehicle engines are warranted for two years. If any emissions-related part on your engine is defective, the part will be repaired or replaced by Yamaha.

OWNER'S WARRANTY RESPONSIBILITIES

- As the specialty vehicle engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Yamaha recommends that you retain all receipts covering maintenance on your specialty vehicle engine, but Yamaha cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the specialty vehicle engine owner, you should also be aware that Yamaha may deny you warranty coverage if your specialty vehicle engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

- You are responsible for presenting your specialty vehicle engine to a Yamaha dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact the Yamaha Customer Relations Department at (770) 254-4164.

Yamaha Motor Manufacturing Corporation of America warrants to the ultimate purchaser and each subsequent purchaser thereafter that each new 1996 and later model year specialty vehicle engine certified for sale is:

1. Designed, built, and equipped so as to conform, at the time of sale, with all applicable regulations adopted by the California Air Resources Board, and
2. All warranted parts are free from defects in material and workmanship for the warranty period of the specialty vehicle engine or the period prior to the first scheduled replacement point of the warranted part as required by the maintenance schedule, if applicable, whichever is less. A defect exists when a deficiency in material or workmanship is such that an emission-related warranted part does not function as designed.

The warranty period begins on the date that the specialty vehicle engine is delivered to an ultimate purchaser or on the date it is first placed in service.

WARRANTED PARTS INCLUDE the following:

1. Fuel Metering System
Carburetor and internal parts (or fuel injection)
Air/fuel ratio feedback and control system
Cold start enrichment system
2. Air Induction System
Controlled hot air intake system
Intake manifold

WARRANTY

1

3. Ignition System
Spark plugs *
Magnetron or electronic ignition system
Spark advance/retard system
4. Exhaust Gas Recirculation (EGR) System
EGR valve body, and carburetor spacer if applicable
EGR rate feedback and control system
5. Air Injection System
Air pump or pulse valve
Valves affecting distribution of flow
Distribution manifold
6. Catalyst or Thermal Reactor System
Catalytic converter
Thermal reactor
Exhaust manifold
7. Particulate Controls
Traps, filters, precipitators, and any other device used to capture particulate emissions
8. Miscellaneous Items Used in Above Systems
Vacuum, temperature, and time sensitive valves and switches
Electronic controls
Hoses, belts, connectors, and assemblies
9. Engine components damaged due to a failure under warranty of a warranted part.

* The original spark plug(s) are warranted for the period of replacement indicated in the Owner's/Operator's Manual and not the useful life of the specialty vehicle engine (see your Owner's Manual).

DURING THE PERIOD OF THIS WARRANTY

Yamaha Motor Manufacturing Corporation of America will repair or replace any warranted part deemed defective by Yamaha during the scope of the warranty without charge to the owner, including parts, labor, and diagnosis. This work must be done at an authorized Yamaha dealer. Give notice to an authorized Yamaha dealer of any apparent defect(s) within a reasonable period of time after discovery. The specialty vehicle engine must be made available for inspection by an authorized Yamaha dealer.

OWNER'S RESPONSIBILITY: The owner of the

specialty vehicle engine is responsible for the performance of required maintenance (see your Owner's/Operator's Manual). Receipts and maintenance records covering the performance of regular maintenance should be retained in the event questions arise concerning maintenance. The receipts should be transferred to each subsequent owner of this specialty vehicle engine.

The emission control systems of your Yamaha specialty vehicle engine were designed, built, tested, and certified as being in conformity with California emission control regulations using genuine Yamaha parts. Accordingly, it is recommended that any replacement part(s) used for maintenance, replacement, or repair of emission control systems be Yamaha parts. The owner may elect to have maintenance, replacement, or repair of the emission control devices and systems performed by any repair establishment or individual, and may elect to use parts other than Yamaha parts for such maintenance, replacement, or repair without invalidating this warranty. However, the cost of such service or parts will not be covered under the warranty.

EXCLUSIONS: No warranty coverage will be allowed if the part(s) failure was caused by owner/operator abuse, neglect, tampering, improper adjustment unless performed by a dealer during warranty repair work, modification, misuse, alteration, or improper maintenance (see your Owner's/Operator's Manual).

Use of parts which are not qualitatively equivalent to genuine Yamaha parts, improper service, or lack of required maintenance which causes failure of a warranted part may constitute abuse and/or improper service, thereby invalidating warranty liability hereunder.

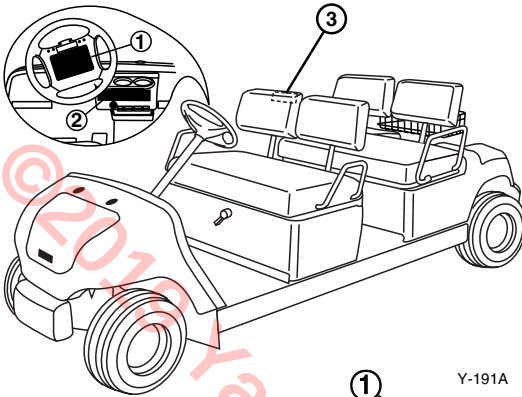
This warranty does not cover damage resulting from accidents, acts of nature, or other events or occurrences beyond the control of Yamaha. Yamaha Motor Manufacturing Corporation of America expressly disclaims responsibility for any and all consequential damages, such as loss of time, inconvenience, loss of use of the specialty vehicle, or commercial loss.

Yamaha Motor Manufacturing Corporation of America
1000 Hwy. 34 East
Newnan, GA 30265

LIT-13710-20-01

IMPORTANT LABELS

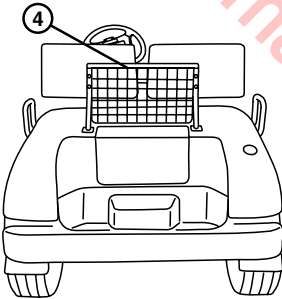
2



SAFETY AND INSTRUCTION LABELS

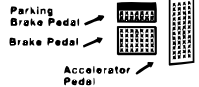
WARNING

Please read the following labels carefully before operating your multi-passenger vehicle, and promptly replace any labels which become damaged or removed.



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

JR8-K7702-01

Y-500

WARNING

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

- Read Operating Instructions on steering wheel before operation.
- Operate only when authorized and only in designated areas.

OFF
▼

OIL
WARNING

ON
▲

- Operate from driver's side only.
- Vehicle capacity : 2 occupants per seat, 4 persons total.
- 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

JR8-K7705-00

WARNING

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

- Vehicle capacity : 2 occupants per seat, 4 persons total
- Remain seated and hold on when in motion.
- Keep entire body inside vehicle.

YAMAHA

JR8-K7757-00

WARNING

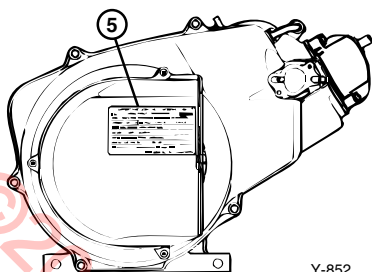
"Do not stand or sit in this area. You could fall and be injured."

YAMAHA

JR8-K7766-00

IMPORTANT LABELS

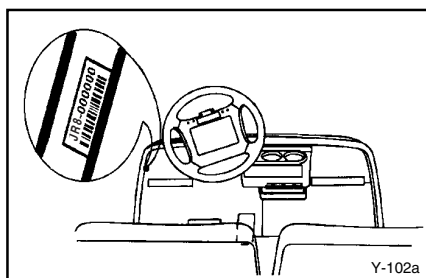
2



5

IMPORTANT ENGINE INFORMATION				YAMAHA	
ENGINE FAMILY : *****					
REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.					
DISPLACEMENT: *** cm ³		VALVE LASH(mm)		IN: **~** EX: **~**	
IGNITION TIMING & IDLE MIXTURE		NO OTHER ADJUSTMENTS NEEDED.			
IDLE SPEED: ***** rpm		AT NO LOAD			
FUEL: THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE.					
ENGINE OIL: SAE 10W-30		TYPE		SD	
THIS ENGINE MEETS 1995-1996 CALIFORNIA EMISSION REGULATIONS FOR SPECIALTY VEHICLES BELOW 25HP. THIS ENGINE CONFORMS TO **(*)** U.S. EPA REGULATIONS FOR SMALL NONROAD ENGINES.					
YAMAHA MOTOR CO.,LTD. JR3-2179R-00					

Y-851



MULTI-PASSENGER VEHICLE SERIAL NUMBER

The vehicle serial number is stamped in the location shown.

NOTE:

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



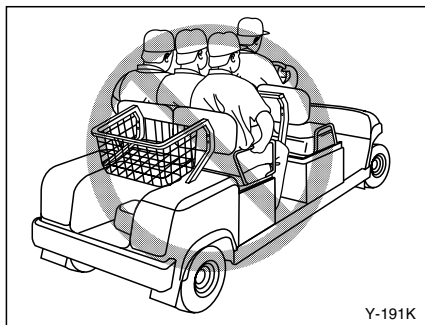
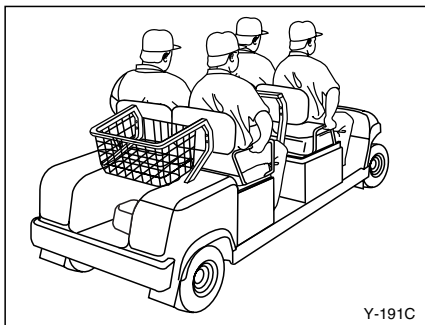
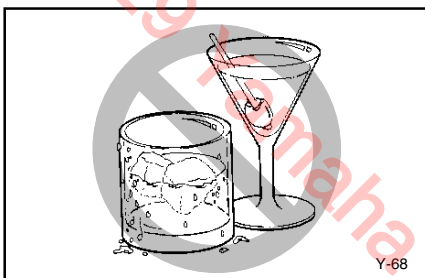
OCCUPANT SAFETY



Yamaha vehicles are designed to be simple to operate. However, be sure to observe the following:

BEFORE OPERATING THE MULTI-PASSENGER VEHICLE

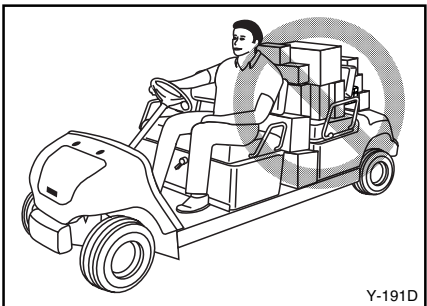
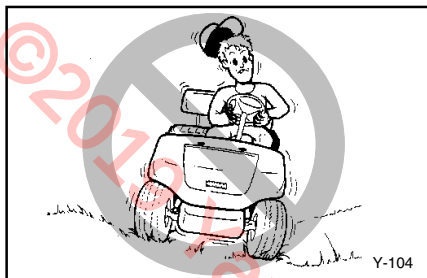
- Read this Owner's/Operator's manual and all safety and instruction labels on the vehicle before operating.
- Perform the pre-operation checks found in Section 6 of this manual.
- Do not operate the vehicle while under the influence of alcohol or drugs; their effect on vision and judgment make operating a vehicle dangerous.
- Only authorized people should drive the vehicle, from the driver's side only, and only in designated areas. It is recommended that only people who possess a valid motor vehicle driver's license be allowed to operate the vehicle.
- Do not operate the vehicle on public streets, roads or highways. Such use is prohibited by law, and dangerous. Operation on public roads can result in collision with other vehicles.
- Do not allow more than four people to ride in the vehicle. This vehicle is restricted to a maximum of four occupants. A driver and passenger in the front seat and two passengers in the rear seat.





OCCUPANT SAFETY

3



WHILE OPERATING THE MULTI-PASSENGER VEHICLE

- Always drive slowly straight up or straight down slopes – never at an angle.
- Vary the speed of the vehicle to match the terrain of the path.
- Avoid turning the steering wheel too sharply at higher speeds.
- Keep your hands on the steering wheel and your eyes on the path ahead.
- Avoid starting or stopping abruptly.
- All occupants should remain inside the vehicle, remain seated, and hold on when the car 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.
- Use extra care in congested areas or when backing up. Always back up slowly, and watch carefully.
- Do not use rear seat for cargo or luggage storage. Rear seat is to be used for 1 or 2 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.

MAINTENANCE SAFETY PROGRAM

MAINTENANCE REQUIRED FOR MULTI-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 Yamaha.
- **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 car storage areas.

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 vehicle before beginning any maintenance.
- Properly block chassis before working underneath vehicle.
- Before disconnecting any part of the fuel system, drain the applicable part of the system to prevent fuel leaks.
- Avoid fire hazards, and have appropriate fire protection equipment available.
- Maintain all safety devices including brakes, steering mechanisms, warning devices, and governors in a safe operating condition. Do not modify these safety devices as supplied by the manufacturer.
- After each maintenance or repair, the vehicle must be driven by a qualified, trained, and authorized person – in an area free of pedestrian traffic – to ensure proper operation and adjustment.
- Record all maintenance performed in a maintenance record log by date, name of person performing maintenance, and type of maintenance. Periodically inspect maintenance log to ensure accurate and complete entries.
- Maintain in a legible condition all nameplates, warnings, and instructions provided by the manufacturer.
- If new nameplates, warnings, or instructions are needed, contact your Yamaha dealer.

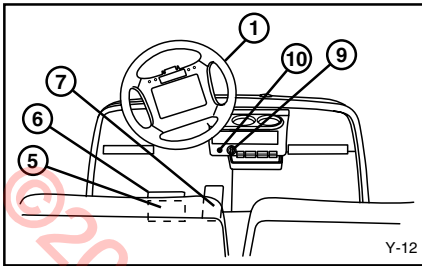
MAINTENANCE SAFETY PROGRAM

FUEL HANDLING/ STORAGE AND BATTERY CHARGING

Take the following precautions to ensure maintenance worker safety:

- Supervise the storage and handling of liquid fuels in accordance with applicable fire and safety requirements.
- Only use battery changing and charging facilities and procedures that are in accordance with applicable ordinances and regulations.
- Periodically inspect fueling and charging facilities and procedures to be certain that applicable safety codes, regulations, and procedures are being followed.

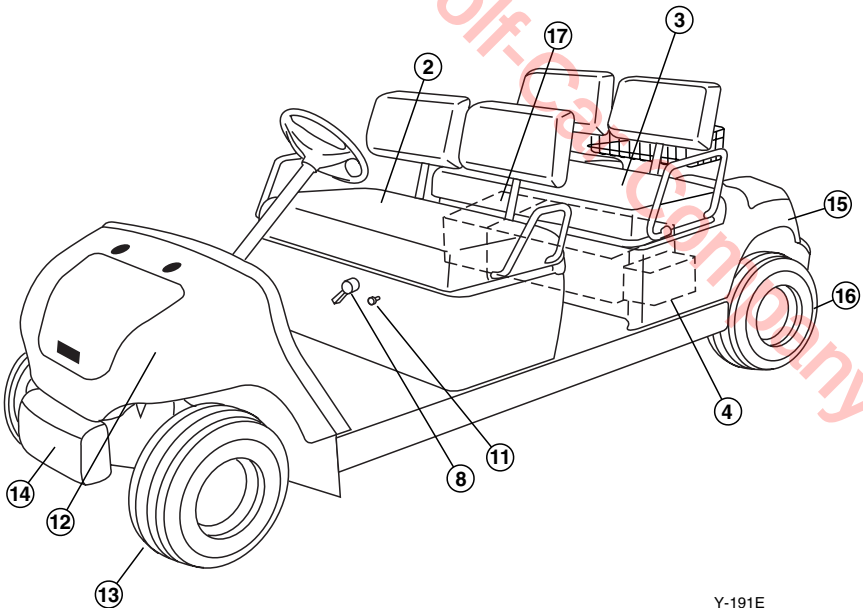
CONTROLS



FEATURES

- ① Steering wheel
- ② Front seat
- ③ Rear seat
- ④ Battery
- ⑤ Brake pedal
- ⑥ Parking brake pedal
- ⑦ Accelerator pedal
- ⑧ Drive selector lever
- ⑨ Main switch
- ⑩ Oil warning light
- ⑪ Choke knob
- ⑫ Front cowl
- ⑬ Front tire
- ⑭ Front bumper
- ⑮ Rear cowl
- ⑯ Rear tire
- ⑰ Fuel cap

5



Y-191E

CONTROLS

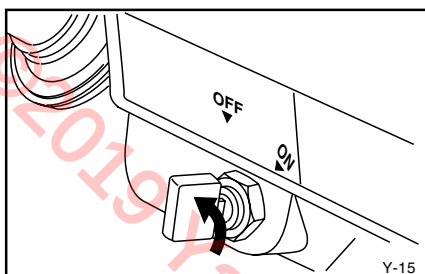
MAIN SWITCH

The main switch controls the following items:

OFF

Ignition circuit is switched off.

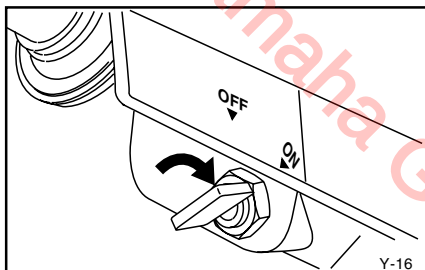
The key can be removed only in this position.



ON

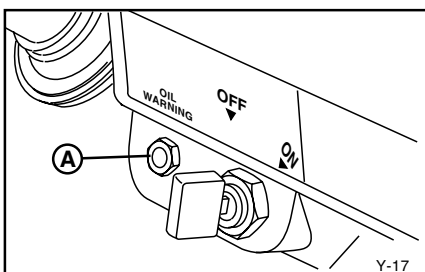
Electrical circuits are switched on.

The vehicle can be driven.



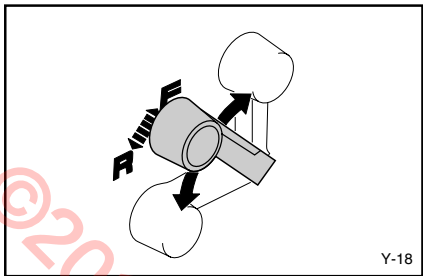
OIL WARNING LIGHT

When the engine oil level falls below an acceptable level, this light comes on. **If the light comes on, stop the engine, check the engine oil level, and add oil as necessary. (See page 6-3).**



(A) Oil warning light

CONTROLS



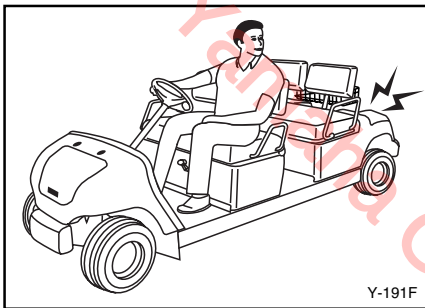
DRIVE SELECT LEVER

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

Lever Position	Car Movement
F	FORWARD
R	REVERSE

NOTE: _____
The back-up buzzer will beep when the drive select lever is turned to "R."

5



ACCELERATOR PEDAL

The accelerator pedal controls the vehicle's speed.

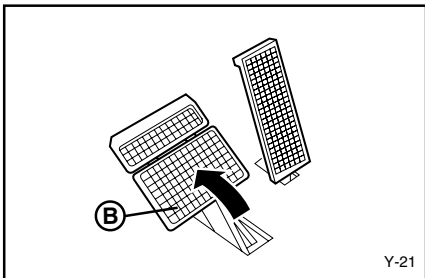
Action	Car Speed
Depress pedal	Increase
Release pedal	Decrease

Ⓐ Accelerator pedal

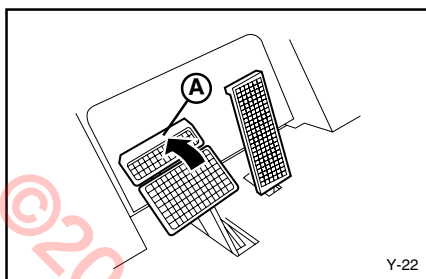
BRAKE PEDAL

Press down on the brake pedal to stop the vehicle.

Ⓑ Brake pedal



CONTROLS



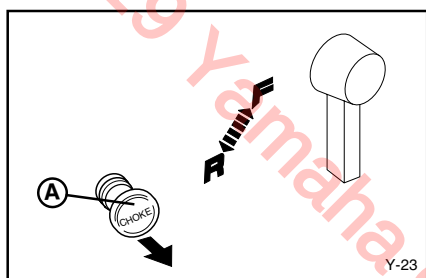
PARKING BRAKE PEDAL

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

Ⓐ Parking brake pedal

NOTE:

Release the parking brake by depressing the accelerator pedal.



CHOKE KNOB

Pull and hold out choke knob when starting a cold engine. Release the knob after the engine starts.

Ⓐ Choke knob

PRE-OPERATION CHECKS

Pre-operation checks should be made each time you use your 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 car from moving.

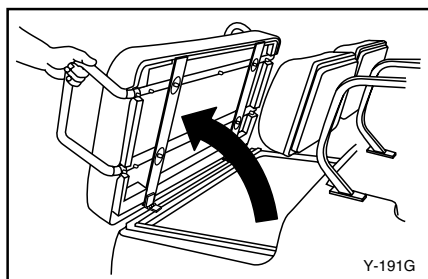
PRE-OPERATION CHECKLIST

Before each use check the following:

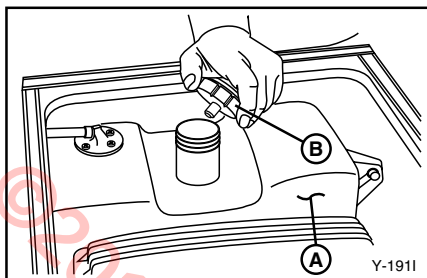
- ✓ Fuel system
- ✓ Engine oil level
- ✓ Air cooling duct
- ✓ Battery
- ✓ Tire condition
- ✓ Steering system
- ✓ Back-up buzzer
- ✓ Pedal operation
- ✓ Body and chassis

SEAT

Open the rear seat for checking and servicing.



PRE-OPERATION CHECKS



FUEL SYSTEM

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

- Ⓐ Fuel tank
- Ⓑ Fuel cap

⚠ WARNING

Gasoline and its vapors are highly flammable and explosive.

- Do not smoke when refueling and keep away from sparks, flames, or other sources of ignition.
- Stop engine and allow it to cool for several minutes before refueling.
- Refuel 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 refueling.
- 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.

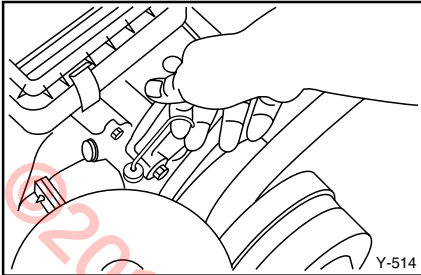
CAUTION

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

Recommended fuel:
Unleaded gasoline

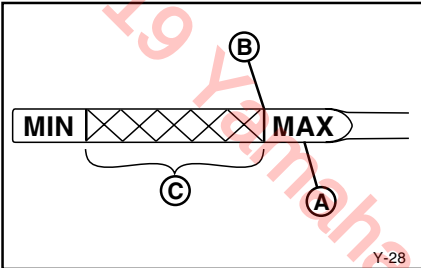
Fuel tank capacity:
6.3 US gal
(24.0 L, 5.3 Imp gal)

PRE-OPERATION CHECKS



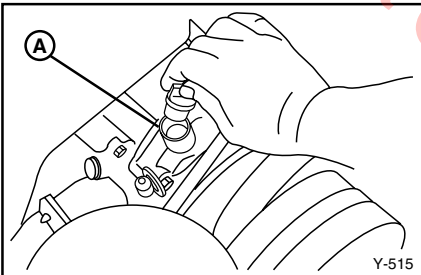
ENGINE OIL

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



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

If the oil level is **below** the MIN mark on the dipstick, add oil through the oil filler until the oil level is between the MIN and MAX marks. Do not add oil if the level is above the MIN mark.



- (A) Oil filler hole

CAUTION

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

Recommended oil:
YAMALUBE 4-cycle oil or
SAE 10W-30

Engine oil capacity:
1.16 US qt
(1.1 L, 0.24 Imp gal)

Oil change quantity:
1.0 US qt
(0.9 L, 0.19 Imp gal)

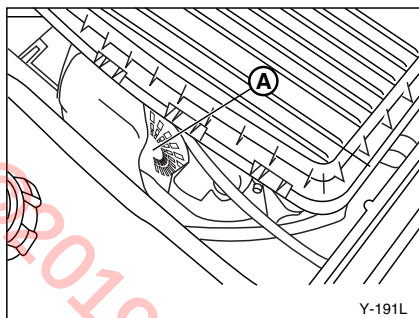
NOTE:

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

NOTE:

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

PRE-OPERATION CHECK



Engine Cooling Inlet Duct

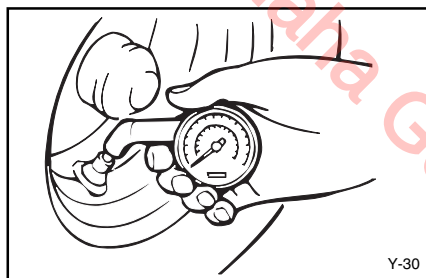
Check the engine cooling inlet duct for debris. Remove any debris present.

Ⓐ Engine cooling inlet duct

BATTERY

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

6



TIRE CONDITION

Tire Air Pressure

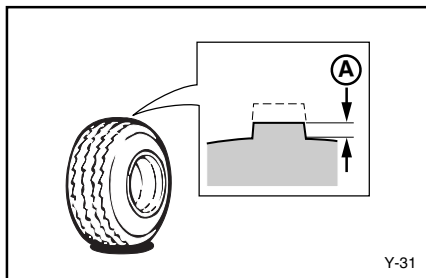
Check the tire air pressure before operating the vehicle.

Tire pressure:

For G20-A:

20 - 23 psi

(140 - 160 kPa, 1.4 - 1.6 kgf/cm²)

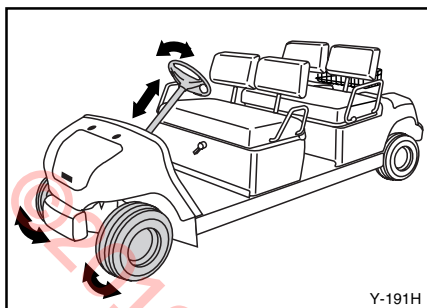


Tire Wear Limit

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

Ⓐ Wear limit

PRE-OPERATION CHECKS

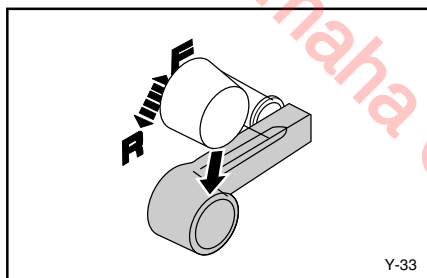


STEERING SYSTEM

Check the steering system for excessive freeplay by:

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

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



BACK-UP BUZZER

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

6

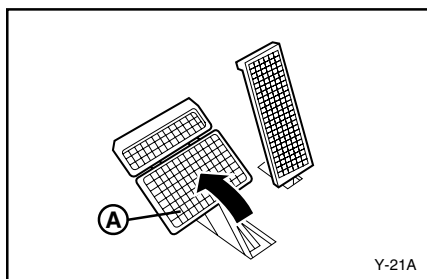
PEDAL OPERATION

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

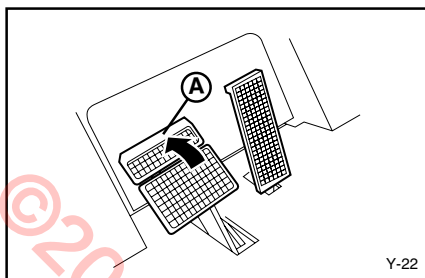
Brake Pedal

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

- Ⓐ Brake pedal



PRE-OPERATION CHECKS



Parking Brake Pedal

⚠ WARNING

Before checking operation of the parking brake, be sure the main switch is in the “OFF” position.

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

Ⓐ Parking brake pedal

NOTE:

Release the parking brake by depressing the accelerator pedal.

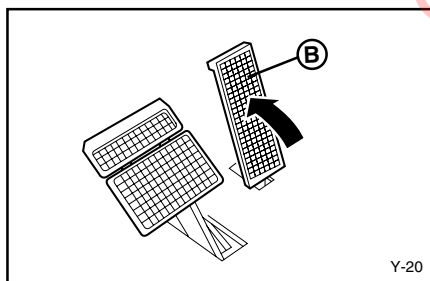
Accelerator Pedal

⚠ WARNING

Before checking operation of the accelerator pedal, be sure the main switch is in the “OFF” position.

Make sure the accelerator pedal operates smoothly.

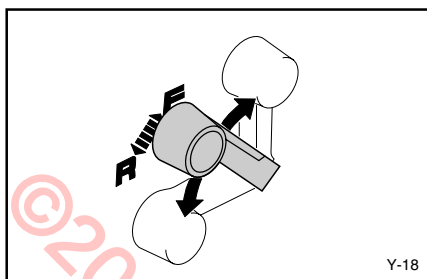
Ⓑ Accelerator pedal



BODY AND CHASSIS

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

OPERATION



STARTING

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

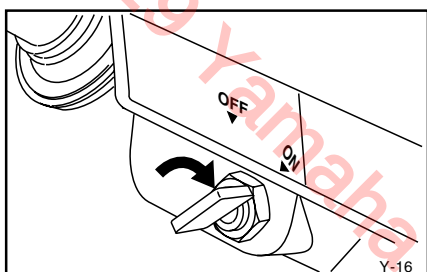
CAUTION

Do not shift from "F" forward to "R" reverse while the vehicle is moving.

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.

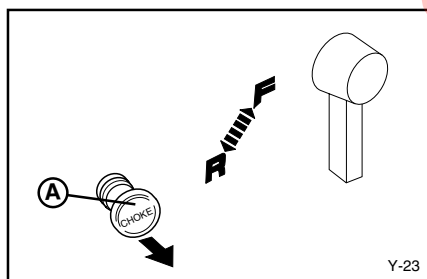


3. Pull the choke knob out and hold it while starting. Release the choke knob after the engine starts.

Ⓐ Choke knob

NOTE:

The choke is not required when the engine is warm.

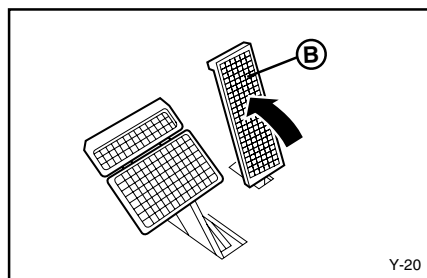


4. Check that your path is clear in the direction you plan to go, and slowly depress the accelerator pedal. The vehicle will start to move.

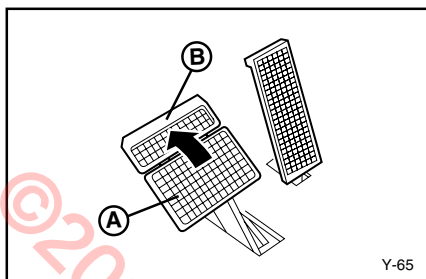
Ⓑ Accelerator pedal

NOTE:

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



OPERATION



STOPPING

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

Ⓐ Brake pedal

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

Ⓑ Parking brake pedal

CAUTION

Do not hold the vehicle on an incline with the accelerator – use the brake.

MAINTENANCE

PERIODIC MAINTENANCE CHARTS

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

⚠ WARNING

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

FOR G20A

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

	Remarks	Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (Every month)	125 rds 125 hrs 600 mls 1000 kms (Every 6 months)	250 rds 250 hrs 1200 mls 2000 kms (Every year)	500 rds 500 hrs 2500 mls 4000 kms (Every 2 years)	1000 rds 1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
PRE-OPERATION CHECKS	Check engine oil	C	C	C				6-3
	Check air cooling duct	C	C	C	C	C	C	6-4
	Check fuel lines for leakage	C	C	C	C	C	C	6-2
	Check fuel level	C	C	C	C	C	C	6-2
	Check for looseness and corrosion of battery terminals and hold downs	C	C	C	C	C	C	6-4
	Check brake pedal freeplay and adjust if necessary	C	CA	CA	CA	CA	CA	8-12
	Check steering operation	C	C	C	C	C		6-5
	Check tire pressure, tread depth, tire surface for damage	C	CA	CA	CA	CA	CA	6-5
	Check body and chassis for damage	C	C	C	C	C	C	6-6
EVERY MONTH	Check tightness of all bolts, nuts, and screws	C	C	C	C	C	C	*
	Check reverse buzzer operation	C	C	C	C	C	C	6-5
	Check fuel filter for clogging		C	C	C	C	C	*
	Check wear of drive belt		C	C	C	C	C	8-8
	Check operation of Forward / Reverse shifting		C	C	C	C	C	6-5
EVERY 6 MONTHS	Clean / Lube pedal control area		CL					—
	Wash pre-filter, check air cleaner element			S	S	S	S	8-6
	Check spark plug and plug cap condition** / Check compression			C	C	C	C	8-4*
EVERY YEAR	Check shock absorbers for oil leaks and damaged springs			C	C	C	C	*
	Replace engine oil				R	R	R	8-5
	Adjust throttle cables,** choke cable, check carburetor throttle shaft for wear**				CA	CA	CA	*
	Check starter V-belt for damage and tension				C	C	C	*

* Items with out a page number reference should be serviced by a Yamaha dealer or other qualified mechanic. This manual does not contain these procedures. They are contained in the Service Manual.

** Related to emission control system.

MAINTENANCE

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

	Remarks	Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (Every month)	125 rds 125 hrs 600 mls 1000 kms (Every 6 months)	250 rds 250 hrs 1200 mls 2000 kms (Every year)	500 rds 500 hrs 2500 mls 4000 kms (Every 2 years)	1000 rds 1000 hrs 5000 mls 8000 kms (Every 4 years)	Page
EVERY YEAR	Check drive belt for slippage, wear or scratches				C	C	C	8-8
	Check sliding sheave and ramp shoes; Grease secondary sheave bearing.				CL	CL	CL	*
	Grease primary sheave				L	L	L	*
	Check operation of speed limiter				C	C	C	*
	Apply battery terminal protectant				S	S	S	—
	Check wiring connections and insulation				C	C	C	—
	Check shoe lining thickness and rear axle bearing play				C	C	C	*
	Check kingpin play, seal, and cap / Adjust wheel alignment				CA	CA	CA	*
	Check wheel nut tightness, front wheel bearing play				C	C	C	*
	Check gear box oil level and leakage				C	C	C	8-10
EVERY 2 YEARS	Check operation and adjust pedal stop if necessary				CA	CA	CA	*
	Check brushes for wear and commutator for dirt					C	S	*
EVERY 4 YEARS	Replace fuel filter and fuel hoses						R	*
	Check tightness of cylinder head / Adjust valves						CA	*
	Replace gear box oil						R	8-10
	Check for grease leakage; adjust gearbox 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.

**Related to emission control system.

MAINTENANCE

EXHAUST EMISSION CONTROL SYSTEM AND COMPONENTS

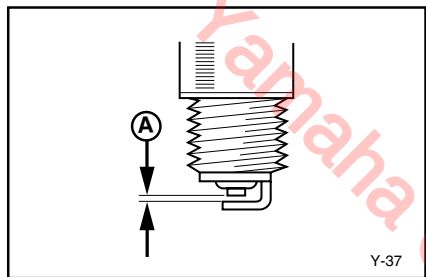
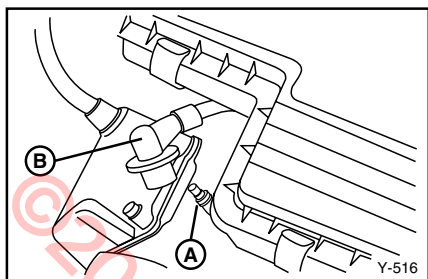
Item	Acronym
CARB. ASSY., LH., JT., CARBURETOR 2 & JT., CARBURETOR 1	CARB (Carburetor)
T.C.I. MAGNETO ASSY. & PLUG, SPARK	EI (Electronic Ignition)
CRANKCASE 1 & HEAD, CYLINDER 1	PCV (Positive Crankcase Ventilation)
AIR FILTER ASSY.	ACL (Air Cleaner)
MUFF., 2	

The above items and the corresponding acronyms 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 acronyms 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.

MAINTENANCE



Spark Plug Inspection

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

- Ⓐ Spark plug
- Ⓑ Spark plug cap

1. Check for discoloration and heavy carbon deposits. The normal electrode color will be tan. If it is not, replace it.
2. Check the spark plug type, and check the spark plug gap with a feeler gauge.

Standard spark plug:
BPR2ES

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

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

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

⚠ 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.

MAINTENANCE

Engine Oil Replacement

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

⚠ WARNING

Use caution not to touch hot engine oil or hot engine parts during the following procedure.

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

NOTE:

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

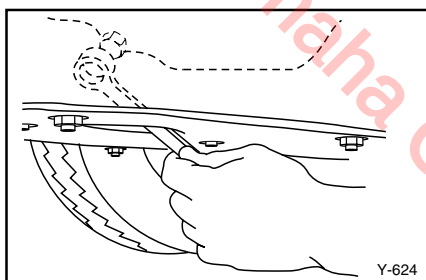
4. Install the drain plug, along with a new drain plug gasket, finger tight before tightening to the following torque:

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

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

NOTE:

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

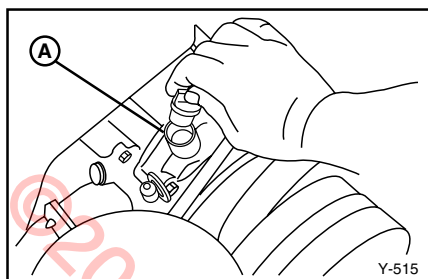


Recommended oil:
YAMALUBE 4-cycle oil or
SAE 10W-30

Engine oil capacity:
1.16 US qt
(1.1 L, 0.24 Imp gal)

Oil change quantity:
1.0 US qt
(0.9 L, 0.19 Imp gal)

MAINTENANCE



(A) Oil filler hole

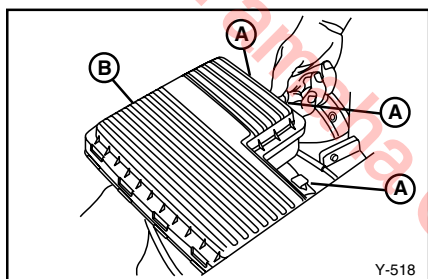
CAUTION

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.

Air Filter

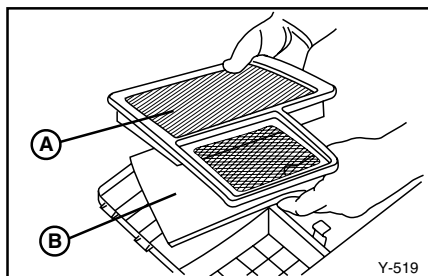
To remove the air filter elements:

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



- (A) Air filter cover clips
(B) Air filter cover

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

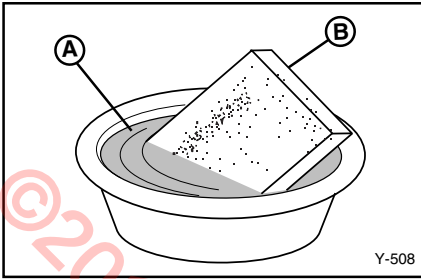


- (A) Air filter
(B) Pre-filter

CAUTION

Be careful not to drop anything into the air inlet.

MAINTENANCE



Inspection and cleaning:

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

- (A) Soap and water
- (B) Foam element

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

CAUTION

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

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

CAUTION

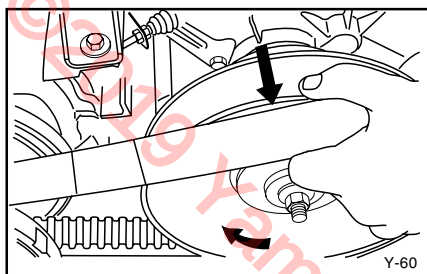
The pre-filter has a notch on one side. It will only fit in the case one way.

MAINTENANCE

Drive Belt

To remove the drive belt:

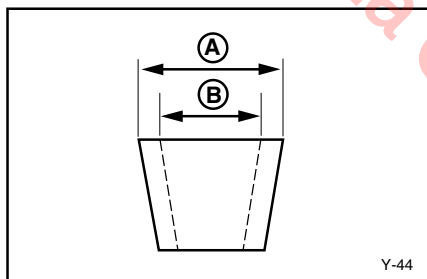
1. Set the drive select lever halfway between forward and reverse.
2. Pull up on the drive belt and push it outward over the edge of the secondary sheave.
3. Turn the secondary sheave clockwise and the drive belt will roll off the sheave.
4. Remove the drive belt from the primary sheave.



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.

- Ⓐ New: 1.22 in. (31.0 mm)
- Ⓑ Replace when belt reaches: 1.06 in. (27 mm)



MAINTENANCE

Battery

⚠ 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.

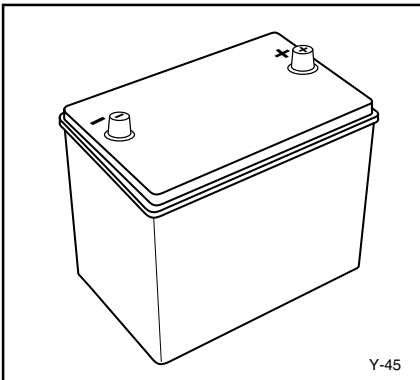
EYES: Flush with water for 15 minutes and get prompt medical attention.

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

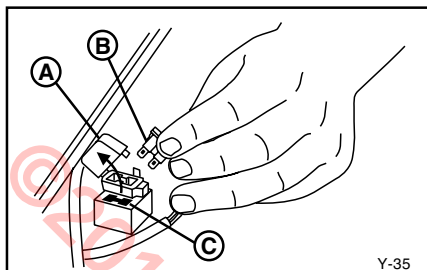
Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

The 12-volt battery that provides starting power to your vehicle normally doesn't require the addition of water during the one year warranty period provided by the battery manufacturer. If the battery loses its charge, have an experienced mechanic charge it.



MAINTENANCE



Replacement Fuse:
10 Amp, Blade Style

Fuse Replacement

⚠ WARNING

Be sure to use the specified fuse. Using a wrong fuse can cause electrical system damage and create a fire hazard.

CAUTION

When replacing a fuse be sure the main switch is turned off to prevent accidental short-circuiting.

- (A) Fuse case
- (B) Fuse
- (C) Replacement fuse

Gear Box Oil

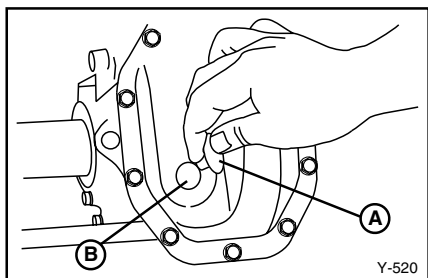
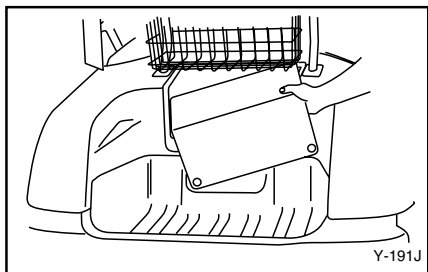
To check gear box oil level:

1. Place the vehicle on a level surface.
2. Remove the access panel by removing the screws in the two lower corners of the panel and pulling the panel from the car.
3. Remove the oil plug (A).

Recommended oil:
SAE 90 gear oil

Gearcase capacity:
0.44 US qt
(0.42 L, 0.09 Imp gal)

8



MAINTENANCE

- Add gear oil little by little until oil flows from the plug hole (B).

4. Allow excess gear oil to flow out until it stops.

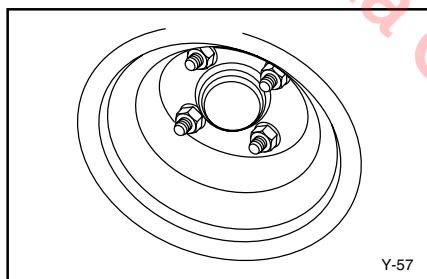
CAUTION

Do not allow foreign material to enter the gear box.

5. Reinstall the oil plug.

NOTE:

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



Wheel nut tightening torque:
58 ft·lb (80 Nm, 8.0 m·kg)



WARNING

Consult your Yamaha dealer before using your vehicle if you suspect brake problems. Brake failure could result in a serious accident.

Wheel Replacement

To remove and install a wheel on your 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.

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.

MAINTENANCE

Brake Pedal Free Play Adjustment

CAUTION

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

To adjust the brake pedal free play:

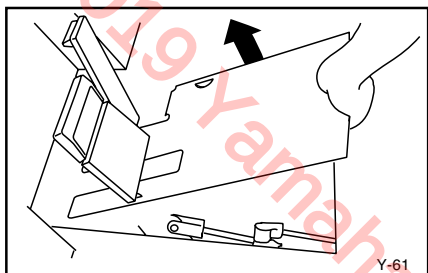
1. Remove the service lid from the floor of the vehicle.
2. Check the brake pedal free play by pressing against the pedal with two fingers (using light force) and measuring the distance the pedal travels before resistance is felt.

Brake pedal free play:
25-30 mm (0.98-1.18 in.)

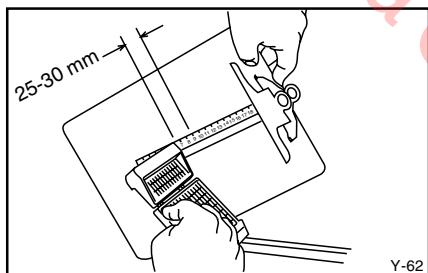
3. If the free play distance needs adjusting, loosen the lock nut and turn the adjusting nut in or out (in 180° increments only, due to the cam shape of adjuster), until the free play specification is met. Then tighten the lock nut in place.

⚠ WARNING

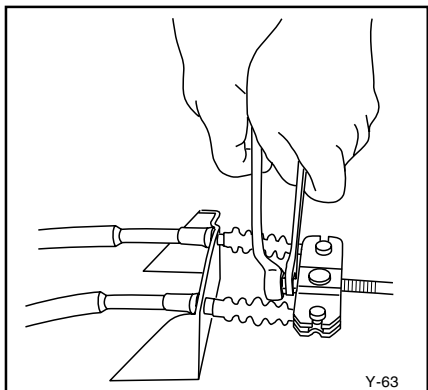
Do not overtighten the brake cables. The self adjusters may not operate properly, reducing braking performance.



Y-61



Y-62



Y-63

STORAGE

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

NOTE:

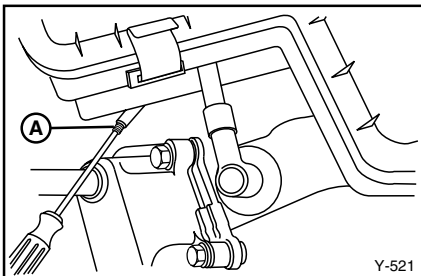
Turn main switch key to "OFF" position, remove key, and store key in a safe place.

DRAINING FUEL

⚠ WARNING

Gasoline and its vapors are highly flammable and explosive.

- 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.
- If you inhale a lot of gasoline vapor, or get gasoline in your eyes, get immediate medical attention.
- If any gasoline gets on your skin, immediately wash with soap and water. Change clothing if gasoline spills on it.



1. Fill the fuel tank.
- ② Float bowl drain screw
2. Drain the carburetor float bowl into a suitable container by turning the screw located on the bottom of the carburetor.

STORAGE

ENGINE PREPARATION

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

CHASSIS PREPARATION

1. Increase the tire pressure to 23 psi (160 kPa, 1.6 kgf/cm²).
2. Clean exterior of the 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 battery from the vehicle and store it in a cool, dry place that stays between 32°F (0°C) and 90°F (30°C).
2. Have the battery recharged every 60-90 days to keep it fully charged. The battery must be kept fully charged to avoid damage.

NOTE: _____

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.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Items	G20A
Dimensions:	
Overall length	128.0 in. (3250 mm)
Overall width	47.2 in. (1200 mm)
Overall height (steering height)	46.8 in. (1190 mm)
Height of floor	11.8 in. (300 mm)
Wheelbase	97.8 in. (2483 mm)
Tread:	
Front	34.3 in. (870 mm)
Rear	38.6 in. (980 mm)
Min. ground clearance	3.8 in. (97 mm)
Weight:	
Dry weight (without battery)	855 lb (388 kg)
Performance:	
Maximum speed	12 mph (19 km/h)
Minimum turning radius	167.0 in. (4.24 m)
Seating capacity	4 persons

SPECIFICATIONS

ENGINE

Items	G20A
Description:	
Engine type	4-stroke, Gasoline, OHV
Number of cylinders	Single
Displacement	301 cm ³
Bore x stroke	3.07 x 2.48 in. (78 x 63 mm)
Compression ratio	8.1:1
Rated output	9.5 hp (7.1 kw)/4000 rpm
Cooling system	Forced air cooled
Starting system	Starter
Ignition system	TCI Magneto
Spark plug type	BPR2ES
Spark plug gap	0.028-0.031 in. (0.7-0.8 mm)
Lubrication system	Splash
Engine oil type	YAMALUBE 4 cycle oil or SAE 10W30
Engine oil capacity	1.16 US qt (1.1 L, 0.24 Imp gal)
Oil change quantity	1.0 US qt (0.9 L, 0.19 Imp gal)

TRANSMISSION

Items	G20A
Transmission:	
Type	V-belt automatic centrifugal engagement
V-belt width and outer line length	1.22 x 39.76 in. (31 x 1010 mm)
V-belt wear limit	1.06 in. (27 mm)
Governor:	
Type	Oil bath flyweight
Factory speed setting	12 mph (19 km/h)
Differential/reduction gear:	G20A
Differential type	Bevel gear
Lubricant/capacity	SAE 90 gear oil/0.44 US qt (0.42 L, 0.09 Imp gal)

BATTERIES

Items	G20A
Battery:	BCI group 24, RC: minimum 75 min CCA: minimum 400A

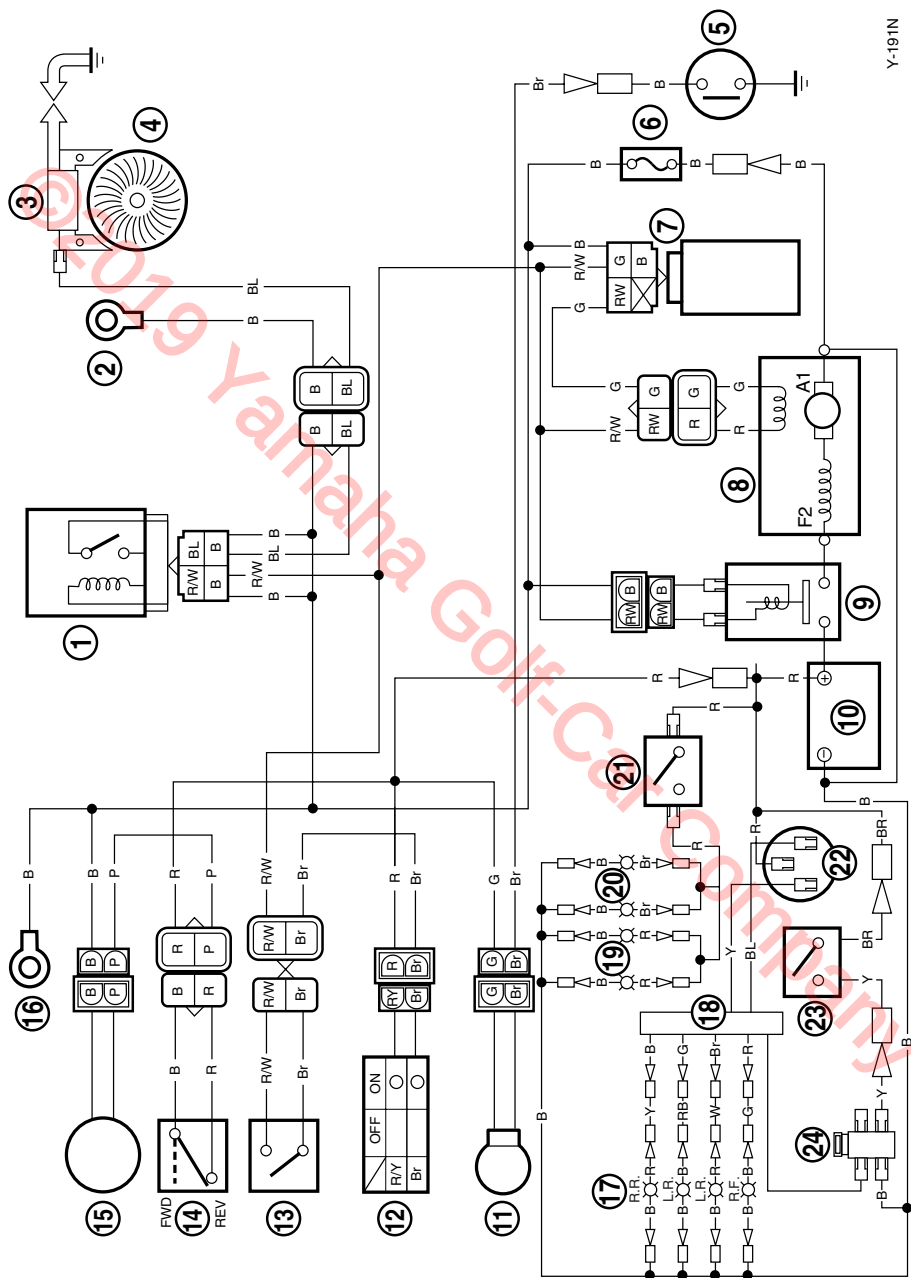
SPECIFICATIONS

CHASSIS

Items	G20A
Steering system: Type Steering angle (L.H.) Steering angle (R.H.) Lubricant/capacity	Worm and pin 1.5 turn 1.5 turn Grease/3.0 US oz (0.09 L, 3.17 Imp oz)
Brakes: Brake system Type of brake Brake pedal freeplay linkage adjustment (Brake cable end play)	Mechanical drum brake on each rear wheel with self-adjusters. Dual internal expanding shoe. Leading/trailing shoes (self-adjusting) 25-30 mm 0.004-0.02 in. (0.1-0.5 mm)
Parking brake: Type	Foot type; parking brake with automatic release.
Release timing (Bolt heads round parallel to arm)	0.04 in. (1 mm)
Wheel: Tire size: Front Rear Rim size: Tire pressure:	18 x 8.50-8.00/4 PR 18 x 8.50-8.00/TURF 7.00-1-8.00 For G20A: 20 - 23 psi (140 - 160 kPa, 1.4 - 1.6 kgf/cm ²)

WIRING

G20A WIRING DIAGRAM



Y-191N

- ① Engine stop relay
- ② Engine ground
- ③ Pickup
- ④ Rotor
- ⑤ Oil level gauge
- ⑥ Blade fuse (10A)
- ⑦ Voltage regulator
- ⑧ Starter generator
- ⑨ Relay
- ⑩ Battery
- ⑪ Pilot lamp (12V, 3.4W)
- ⑫ Main switch
- ⑬ Accelerator stop switch
- ⑭ Back switch
- ⑮ Buzzer
- ⑯ Body ground
- ⑰ Signal lights
- ⑱ Turn signal lever
- ⑲ Head lights
- ⑳ Tail lights
- ㉑ Head light switch
- ㉒ Flasher unit
- ㉓ Brake light switch
- ㉔ Brake light sensor

COLOR CODE

B.....Black
 BL.....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

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10/31/00
1PC - G20A O/M

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Yamaha Motor Corp., USA
Cypress, California

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