

YAMAHA

GOLF CAR

OWNER'S/
OPERATORS
MANUAL

G11A

INTRODUCTION

Congratulations on your purchase of your new Yamaha.

This manual will provide you with a good basic understanding of the operation, and maintenance of this machine. If you have any questions regarding the operation or maintenance of your machine, please consult a Yamaha dealer.

**SERVICE DEPT
LEISURE VEHICLES & O.P.E.
OPERATIONS
YAMAHA MOTOR CO., LTD.**

G11A

OWNER'S MANUAL

**1992 by Yamaha Motor
Corporation, U.S.A.**

1st edition, MAY, 1992

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**Yamaha Motor Corporation,
U.S.A. is expressly prohibited.**

Printed in Japan

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PLEASE READ AND UNDERSTAND THIS MANUAL COMPLETELY BEFORE OPERATING THE MACHINE.

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 machine and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.
- This manual should be considered a permanent part of this machine and should remain with this machine when resold.

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

NOTE:

A note provides key information to make procedures easier or clearer.

IMPORTANT:

A **IMPORTANT** indicates special precautions that must be taken to avoid damage to the machine.

⚠ WARNING

Failure to follow **WARNING** instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the machine.

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YAMAHA MOTOR CORPORATION, U.S.A. UTILITY VEHICLE LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that any new Utility Vehicle Yamaha Golf Car 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 Utility Vehicle 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 utility vehicle's condition, operation, performance, or durability.
- f. Damage due to improper transportation.

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, bed damage such as scratches, dents, or deformation. Any charges incurred in transporting a Utility 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 Utility Vehicle as specified in the appropriate Owner'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 STARTED 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.

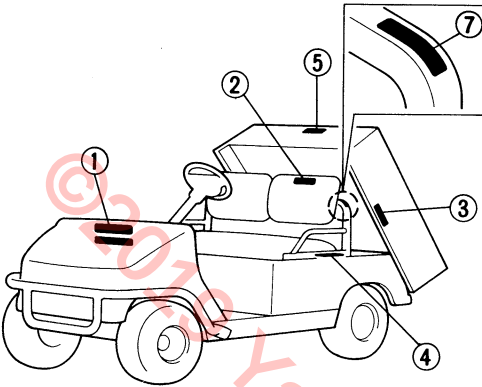
YAMAHA MOTOR CORPORATION
Post Office Box 6555
Cypress, California 90630

LOCATION OF IMPORTANT LABELS

Please read the following labels carefully before operating this machine.

NOTE: _____
Maintain or replace safety and instruction labels, as necessary.

2



①

⚠ WARNING

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

- Operation by authorized adults **only** and only in designated areas.
- This vehicle is restricted to **two** occupants.
- Do not start the vehicle until all occupants are seated.
- Remain seated and hold on while 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.
- Read operating instructions on steering wheel before operation.

VEHICLE LOADING

- Read owner's manual before loading or towing a trailer.
- Maximum cargo bed load - 500 lbs.
- Vehicle rated capacity (driver, passenger, cargo, and trailer) tongue-1000 lbs. on level surface.
- Do not operate on steep hills when fully loaded.
- Cargo should be evenly spread in cargo bed as far forward as possible.
- Secure loads to prevent shifting.
- Keep load as low as possible. Drive slowly when loaded. No top heavy loads.
- Maximum trailer hitch tongue weight - 150 lbs.

JJ3-K7761-00

②

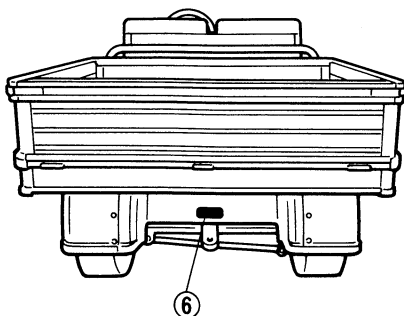
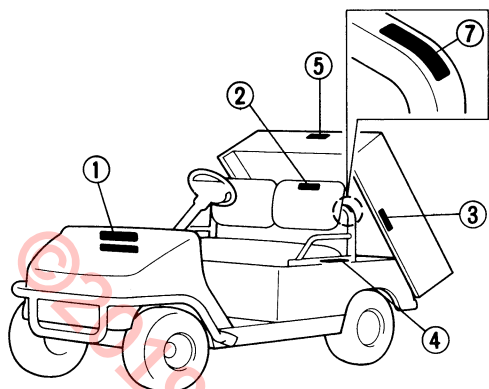


⚠ WARNING

**Do not open / close bed
with seat occupied**

JJ3-K7762-00

2



③

	⚠ WARNING	Left hand on handle, right hand on pull to open / close cargo bed. JJ3-K7764-00
	Keep hands, body, other persons away when closing bed.	

④

	⚠ WARNING	• Always insert prop rod into red receptacle. • Prop rod may be warm to the touch. • Keep hands clear when closing bed. • Do not operate the vehicle with bed up. JJ3-K7767-00

⑤

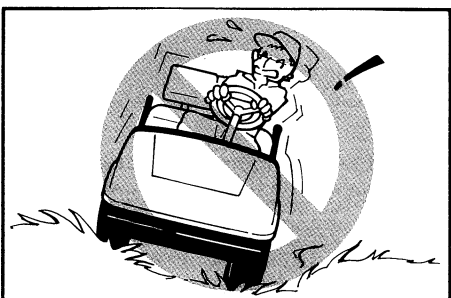
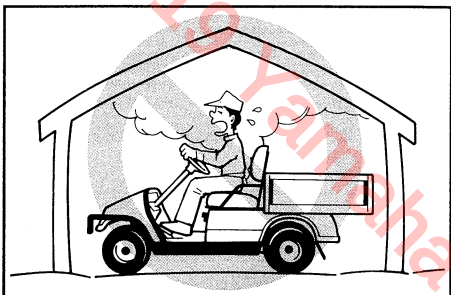
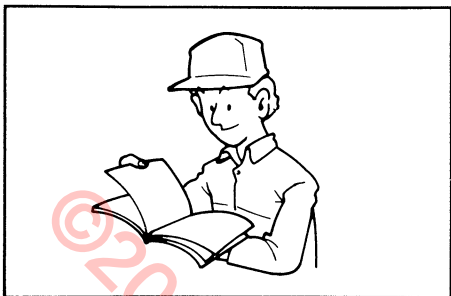
	⚠ WARNING	No persons in cargo bed JJ3-K7766-00

⑥

CAUTION
JACK UNDER AXLE
JJ3-K7765-00

⑦

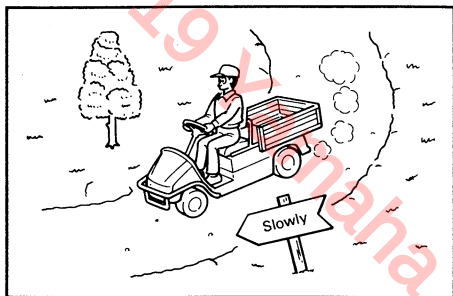
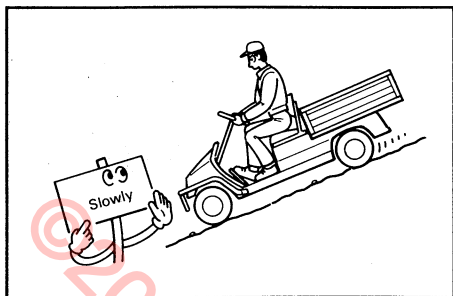
	⚠ WARNING	Pinch point JJ3-K7763-00



SAFETY INFORMATION

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

- Read all warning and instruction labels on the vehicle before operating.
- Bring the car to a complete stop before reversing directions.
- Do not depress the accelerator pedal before turning on the main switch.
- Avoid starting or stopping abruptly; cargo could shift, which could lead.
- Avoid turning the steering wheel too sharply at high speed, an accident may result.
- Keep your hands on the wheel and your eyes on the path ahead.
- Always drive straight up or straight down inclines; never at an angle.
- When backing up, do so slowly, and watch where you are going.
- Park the car on a level surface as much as possible.
- Do not leave car unattended unless the main switch is in the "OFF" position or the key is removed, and the parking brake is on. Accidental movement of the accelerator pedal may allow the car to coast down an incline.
- Never allow more than two people to ride in the car.
- Do not operate vehicle on public streets or highway.

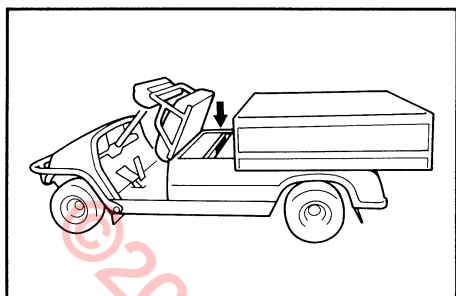


LOADING/TOWING

- Do not drive across the face of slope.
- Avoid poor driving conditions such as wet lawns and rough surfaces. Vehicle handling and stability may be reduced.
- Stop the engine, remove ignition key and make sure trailer is correctly installed before towing trailer.
- Do not allow people to ride in cargo bed or trailer.
- Reduce speed and exercise extreme caution when carrying cargo or towing a trailer, which could affect handling, control, stability, and braking performance.
- When driving on slopes, reduce speed and avoid sudden starts or stops.
Excessive speed or sudden starts or stops could cause loss of control and could lead to vehicle overturning. Abrupt starts going uphill or abrupt braking backing down a slope could cause the front wheels to lift off the ground, reducing control and increasing the chance of an accident.
- Do not tow with any point except specified hitch point and never exceed maximum specified weight on hitch point.
- Do not operate on steep hills when fully loaded.
- Do not exceed the maximum load limit.

WARNING

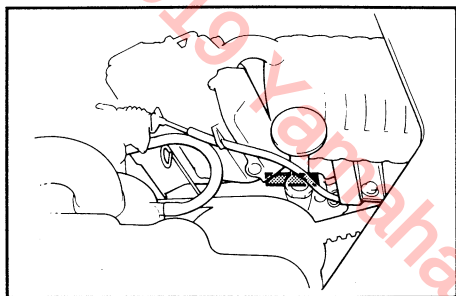
Be sure to check “LOADING/TRAILER TOWING” carefully before loading or towing (See page 7-4).



MACHINE IDENTIFICATION

The machine serial number is stamped in the location shown.

4



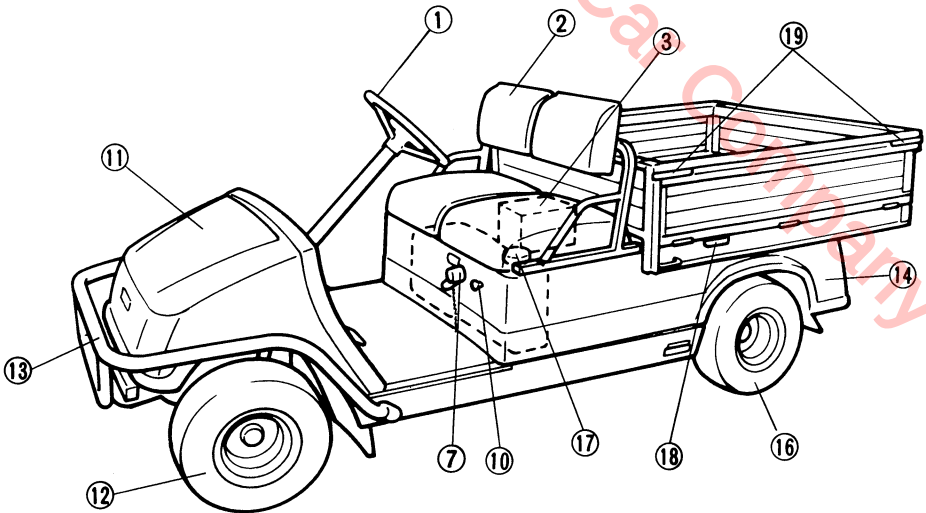
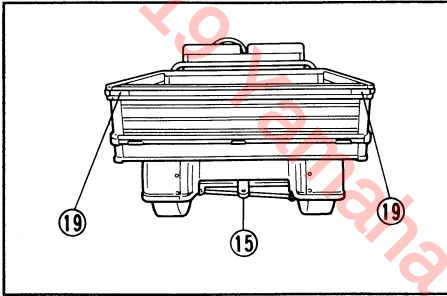
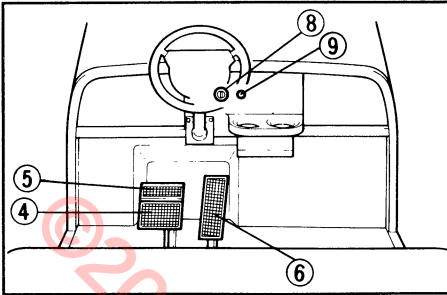
The engine model number is stamped in the location shown.

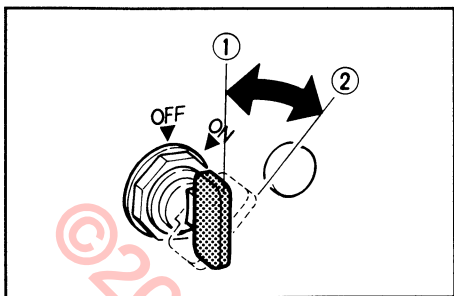
NOTE:

The first three digits of these numbers 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.

CONTROL FUNCTION DESCRIPTION

- ① Steering wheel
- ② Seat
- ③ Battery
- ④ Brake pedal
- ⑤ Parking brake pedal
- ⑥ Accelerator pedal
- ⑦ Drive select lever
- ⑧ Main switch
- ⑨ OIL warning light
- ⑩ Choke knob
- ⑪ Front cowl
- ⑫ Front tire
- ⑬ Front bumper
- ⑭ Rear cowl
- ⑮ Trailer hitch
- ⑯ Rear tire
- ⑰ Fuel cap
- ⑱ Bed latch handle
- ⑲ Gate lever





MAIN SWITCH

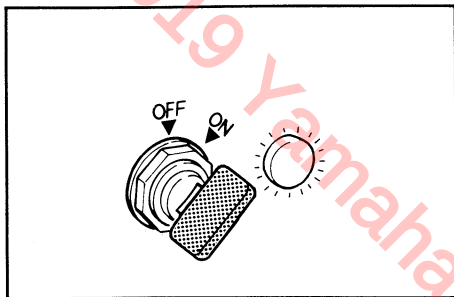
The main switch controls the following items.

OFF:①

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

ON:②

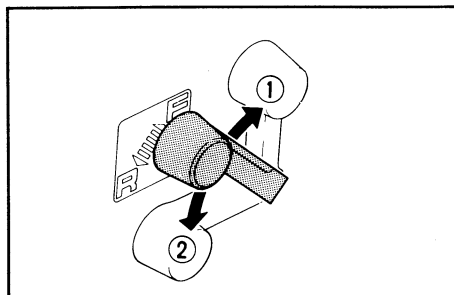
Ignition circuit is switched on. The engine can be started.



OIL WARNING LIGHT

When the oil level falls below the lower level, this light comes on. If the light comes on, stop the engine as soon as it is safe to do so. Add engine oil.

5



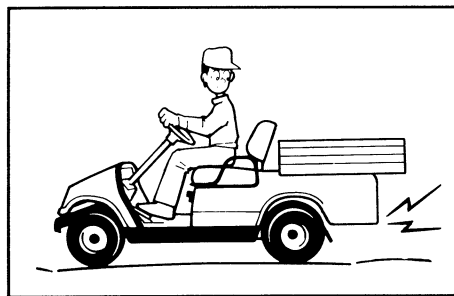
DRIVE SELECT LEVER

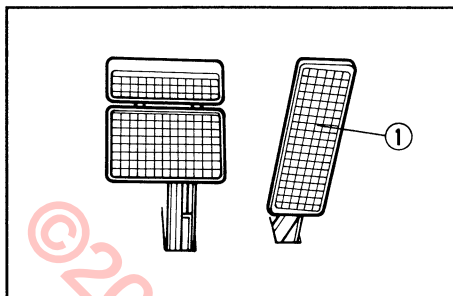
Use this lever to change the direction of machine.

Lever position	Machine movement
① "F"	FORWARD
② "R"	REVERSE

NOTE: _____

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



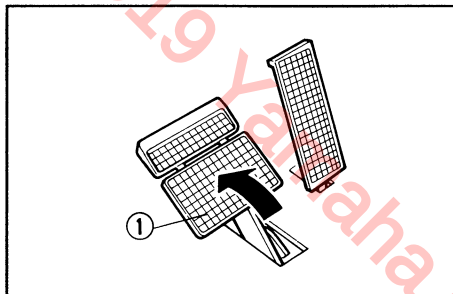


ACCELERATOR PEDAL

The accelerator pedal controls the machine speed.

	Machine speed
Depress	Increase
Release	Decrease

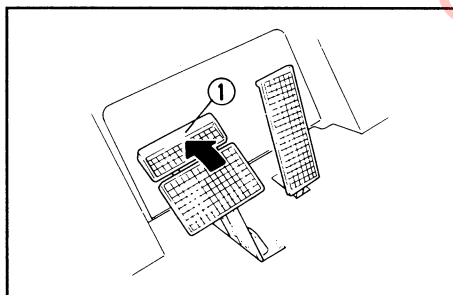
- ① Accelerator pedal



BRAKE PEDAL

Press down on the brake pedal to stop the machine.

- ① Brake pedal



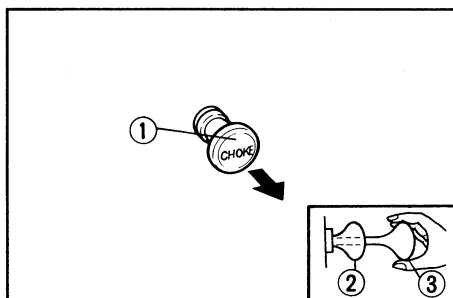
PARKING BRAKE PEDAL

Use the parking brake pedal when parking the machine.

- ① Parking brake pedal

NOTE:

Release the parking brake by depressing the accelerator pedal.



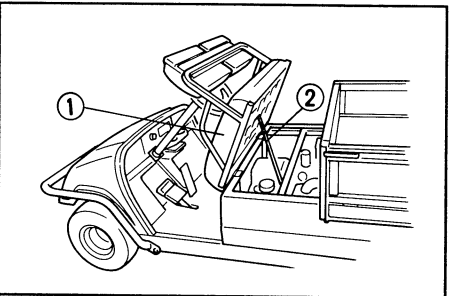
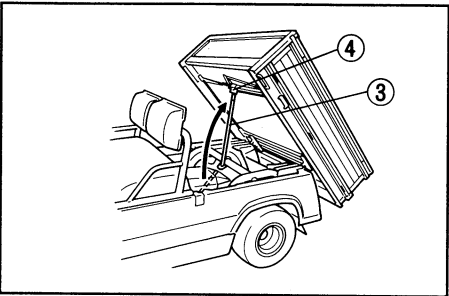
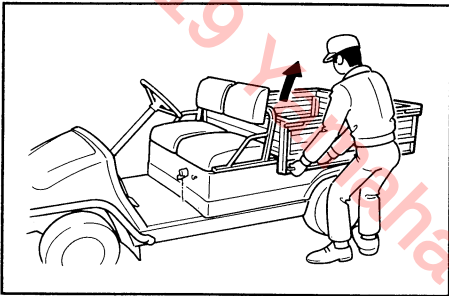
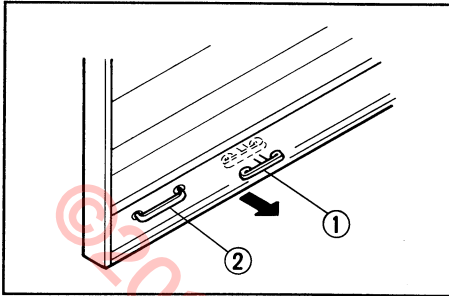
CHOKE KNOB

Use the choke knob when starting and warming up a cold engine.

- ① Choke knob
- ② Warm engine starting
- ③ Cold engine starting

IMPORTANT:

Push back the choke knob when the engine warms up.



CARGO BED

Lift the cargo bed for engine servicing

1. Pull the bed latch pull with right hand.
2. Lift the cargo bed with left hand.
3. Insert prop rod securely into red receptacle under bed.

NOTE: _____

The prop rod will be warm to the touch after operating the car.

⚠ WARNING

5

- Remove the main switch key and apply the parking brake before lifting the cargo bed. Otherwise the vehicle could unexpectedly move.
- Never drive the car with the bed in the up position. Injury could occur if the bed fell accidentally.
- Before closing the bed, be sure others are standing away from the car and that no one is sitting on the seat. Keep hands and fingers away from the pinch point between the bed and seat back.

- ① Bed latch pull
- ② Cargo bed handle
- ③ Prop rod
- ④ Red prop receptacle

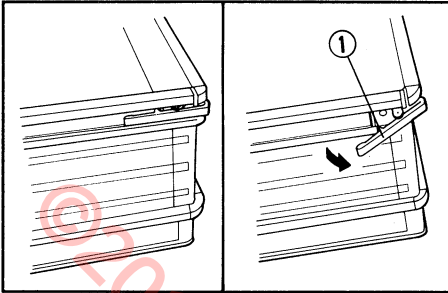
SEAT

Open the seat for refueling.

- ① Seat
- ② Prop rod

⚠ WARNING

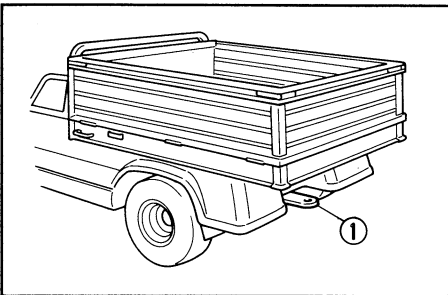
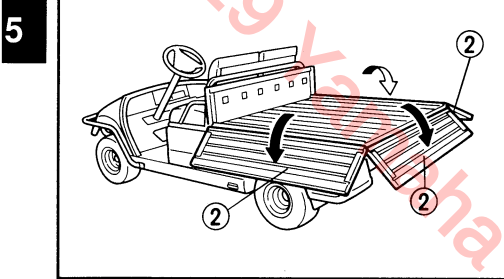
Apply the parking brake before opening the seat. Otherwise the car could unexpectedly move.



GATE LEVER

Use the gate lever when opening the cargo gate.

- ① Gate lever
- ② Cargo gate



TOW HITCH

Use the tow point within the specified weight limits.

- ① Tow point

Tow weight	454 kg (1000 lb)
Vertical weight	68 kg (150 lb)

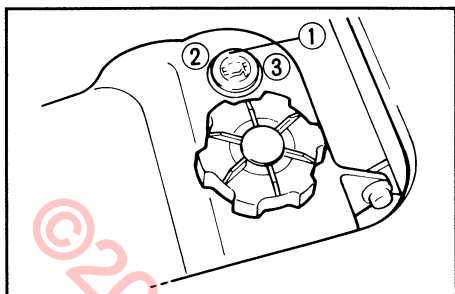
⚠ WARNING

Do not drive the machine over a walking speed of 5 km/h (3 mph) while towing. Otherwise, an accident could result.

PRE-OPERATION CHECKS

WARNING

- Pre-operation checks should be made each time the machine is used.
- Be sure the main switch key is removed before checking to prevent accidental starting.
- During inspection or repair, avoid touching the engine and muffler while they are still hot with any part of your body or clothing.



FUEL

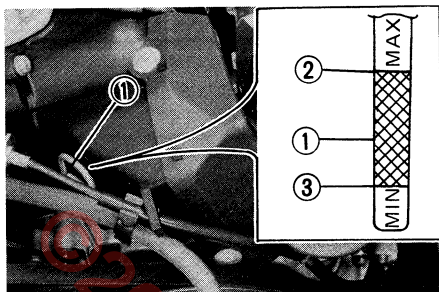
Open the seat.
Make sure there is sufficient fuel in the tank.

Recommended fuel:
Unleaded gasoline
Fuel tank capacity:
23.0 L
(5.1 Imp gal, 6.1 US gal)

- ① Fuel level gauge
- ② "F" Full
- ③ "E" Empty

⚠ WARNING

- Handle fuel with care; it is highly flammable.
- Never add fuel to a running engine or hot engine until the engine has been allowed to cool for several minutes after running.
- Use an approved fuel container.
- Fill fuel tank outdoors with extreme care.
Never remove the fuel cap indoors.
Never fill the fuel tank indoors.
- Retighten gasoline cap securely and wipe up spilled fuel.



ENGINE OIL

(See page 8-9 ~ 8-11 for more details)

Make sure the engine oil is between upper and lower levels. Add oil as necessary.

- ① Oil level gauge
- ② Upper level
- ③ Lower level

Recommended oil:

YAMALUBE 4-cycle oil
or 10W-30

Engine oil quantity:

Total:

1.1 L

(1.0 Imp qt, 1.0 US qt)

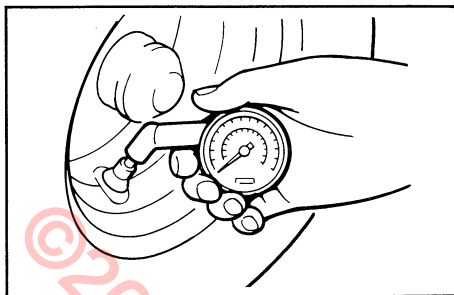
6

NOTE: _____

Recommended engine oil classification:
API Service "SE" or "SF".

IMPORTANT: _____

- Be sure to avoid getting oil on the starter belt.
- Be sure no foreign material enters the crankcase.
- Do not overfill the engine oil.



WHEEL AND TIRE

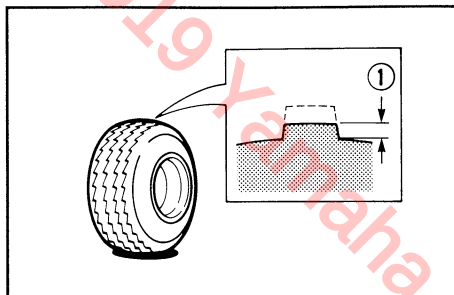
Tire Air Pressure

Check the tire condition before operating the machine.

Tire Pressure:

137 ~ 157 Kpa

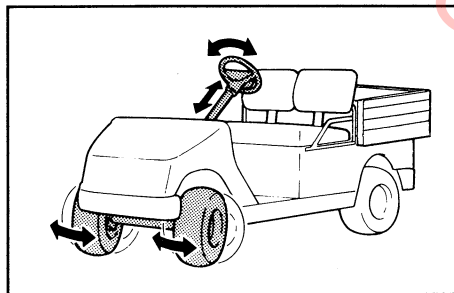
(1.4 ~ 1.6 kg/cm², 20 ~ 23 psi)



Tire Wear Limit

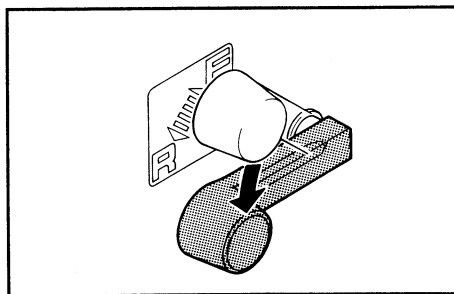
When tire groove wears down to 1 mm (0.04 in), replace the tire.

① Wear limit



STEERING SYSTEM

1. Check the following for free play:
 - Move the steering wheel up and down, and back and forth.
 - Turn the steering wheel slightly to the right and left.
2. If you feel excessive free play, consult a Yamaha dealer.

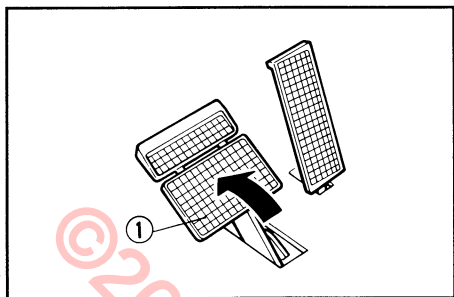


BACK-UP BUZZER

Check the back-up buzzer.

NOTE:

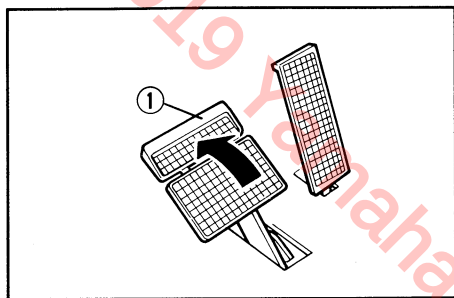
Turn the drive select lever to "REVERSE". The buzzer should sound.



BRAKE PEDAL

Check the brake pedal for proper operation.

- ① Brake pedal



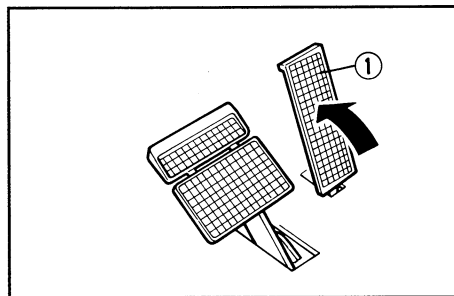
PARKING BRAKE PEDAL

Check the parking brake pedal for proper operation.

- ① Parking brake pedal

NOTE:

Release the parking brake by depressing the accelerator pedal.



ACCELERATOR PEDAL

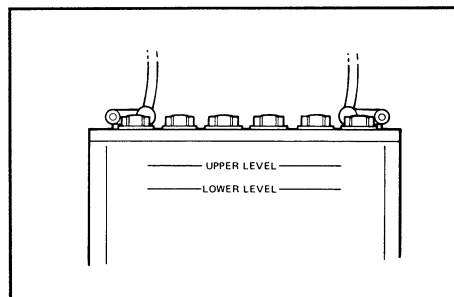
Check the accelerator pedal for proper operation.

- ① Accelerator pedal



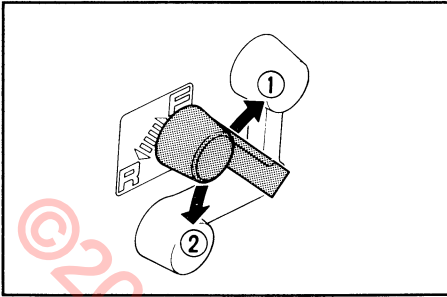
WARNING

Be sure to check for smooth operation of the accelerator pedal while the engine is in the "OFF" position.



BATTERY

1. Open the seat.
2. Check the fluid level and top up if necessary. Use only distilled water if refilling is necessary.



OPERATION

DRIVING

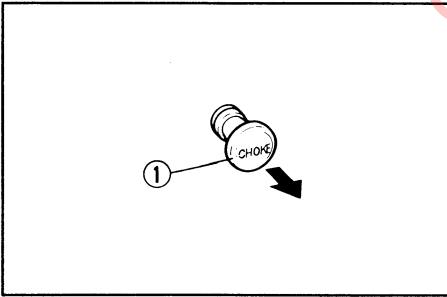
1. Turn the drive select lever to "F" or "R" to move the machine.

- ① Forward
- ② Reverse

IMPORTANT:

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

7

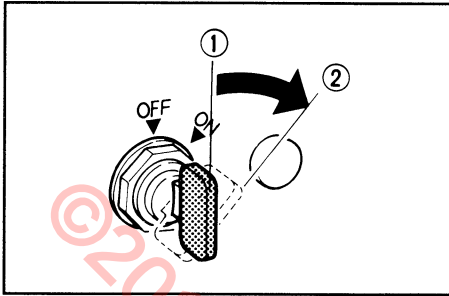


2. Fully pull the choke knob and hold it.

- ① Choke knob

NOTE:

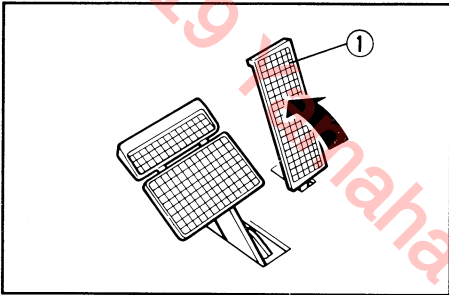
The choke is not required when the engine is warm.



3. Turn the main switch to "ON".

① "OFF"

② "ON"



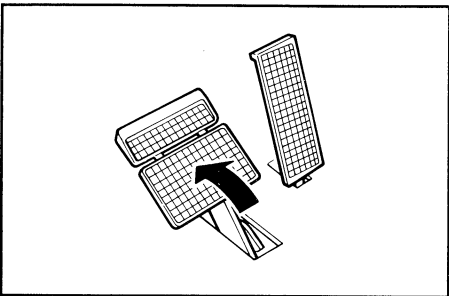
4. Slowly depress the accelerator pedal.

The machine will start to move. Do not depress the pedal too sharply.

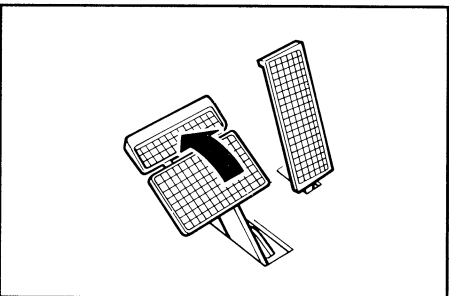
① Accelerator pedal

⚠ WARNING

- To avoid moving unexpectedly, do not depress the accelerator pedal before turning on the main switch.
- Avoid turning the steering wheel too sharply at high speed. An accident may result.



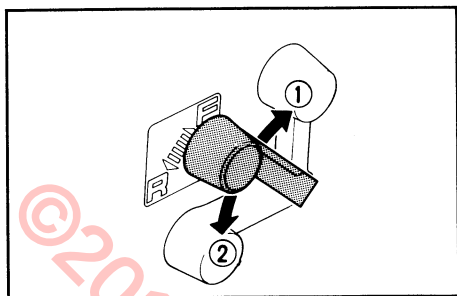
5. Press down on the brake pedal to stop the machine.



6. Apply the parking brake pedal.

NOTE:

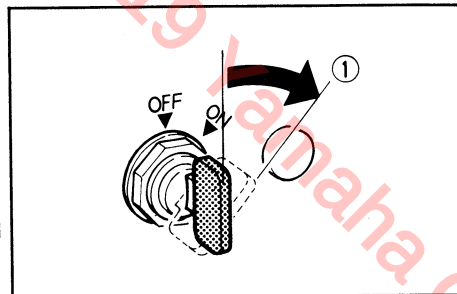
Release the parking brake by depressing the accelerator pedal.



STARTING ON A SLOPE

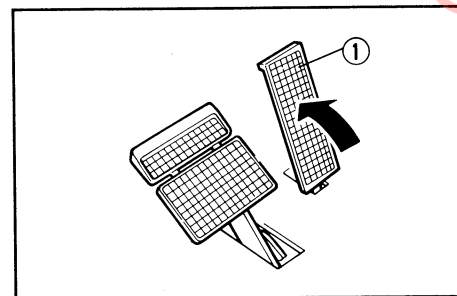
1. Turn the drive select lever to "F" or "R".

- ① Forward
- ② Reverse



2. Turn the main switch to "ON".

- ① "ON"



3. Depress the accelerator pedal.

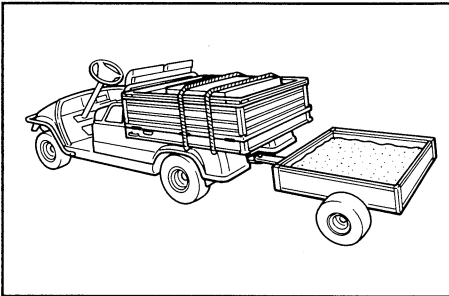
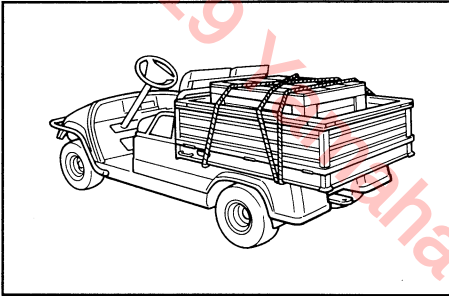
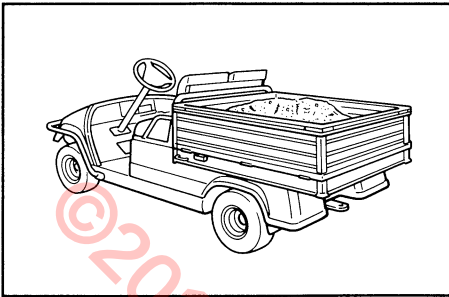
- ① Accelerator pedal

⚠ WARNING

Only drive straight up or down on a slope. Never drive across the face of slope.

NOTE:

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



LOADING/TRAILER TOWING

⚠ WARNING

Be sure to check "SAFETY INFORMATION" carefully before loading or towing (See page3-1)

MAXIMUM LOADING LIMIT

- Maximum cargo bed load
227 kg (500 lb)
- Tow hitch
Tow weight (Including driver, passenger, vehicle cargo and trailer and trailer cargo):
454 kg (1000 lb)
Tongue weight:
68 kg (150 lb)

7

⚠ WARNING

- Do not exceed the maximum loading limits. An overload vehicle can be unstable.
- Keep load as low as possible. Drive slowly when loaded. No top heavy loads.
- Secure loads to prevent shifting.
- Cargo should be evenly spread in cargo bed as for forward as possible the center of gravity may affect the handling, steering and braking performance.
- Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.

PERIODIC MAINTENANCE

MAINTENANCE CHART

Regular maintenance is most important for the best performance and safe operation.

○ Checking or Adjusting

● Lubrication or Replacing

Item	Remarks	Every						Page
		Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000 mls 8000 kms (4 yrs)	
Engine	Adjustment: Valve clearance (cold) [Intake: 0.1 mm (0.004 in), Exhaust: 0.1 mm (0.004 in)]						○	8-5
	Check tightness of cylinder head						○	*
	Check condition of air filter foam cover.			○				8-6
	Wash the air filter cover with soap and water and allow it to dry.				○			8-6
	Check condition of air filter element assy. Replace element.			○	●			8-6
	Check spark plug for condition of electrodes. Plug gap: 0.7 ~ 0.8 mm (0.028 ~ 0.031 in)			○	●			8-7
	Adjustment: Engine bracket tensioner. [Free play: 2 mm (0.08 in)]				○			*
	Check engine oil level.	○	○					8-9
	Replace oil: Oil amount: 1.1 L (1 US qt/1.0 Imp qt) Oil type: SAE 10W30 type SE or SF motor oil (If temperature does not go below 2°C (35°F): SAE 20W40)				●			8-10
	Check oil delivery hose and check-valve. Replace hose.					○	●	*
	Check compression pressure.						○	*

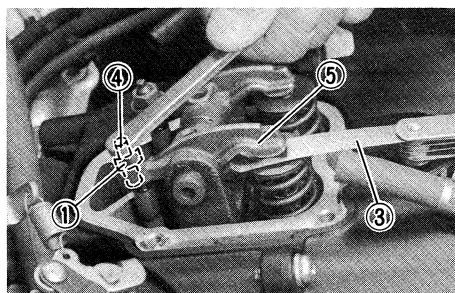
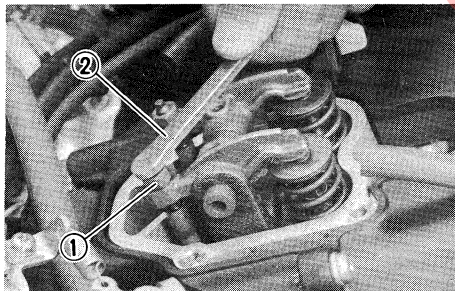
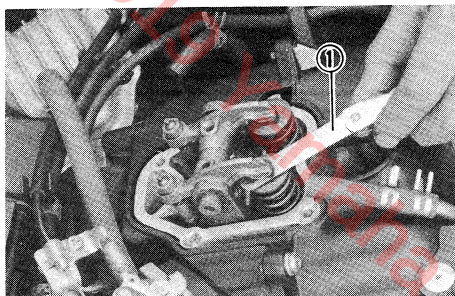
* It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

Item	Remarks	Every						Page
		Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000 mls 8000 kms (4 yrs)	
Fuel system	Adjustment: Throttle cable [Free play: 0.5 mm (0.02 in)]				○			8-11
	Adjustment: Choke cable [Free play: 1 mm (0.04 in)]				○			8-14
	Check operation of cables.	○						
	Check carburetor for dirt or wear.					○		*
	Check fuel lines for fuel leakage. Replace fuel hose.	○					●	*
	Check fuel filter for clogging. Replace filter.				○		●	*
	Check fuel level.	○						6-2
Primary and secondary sheaves	Check drive belt for slippage, wear, or scratches.				○			8-16
	Grease primary sheave. Grease amount: 2 ~ 3 shots (manual grease gun), 2 ~ 3 seconds (automatic grease gun) Grease type: Molybdenum disulfide grease				●			8-19
	Lubricate secondary sheave B/G area.				●			*
	Check for operation and wear of sliding sheave.				○			*
	Check for wear of ramp shoes on secondary spring seat. Wear limit: 1.0 mm (0.04 in)				○			8-20
Transmission case	Check for operation and installation of speed limiter.				○			*
	Check for operation of forward-reverse shifting.		○					
	Check for damage of shifting cable, replace.				○		●	
	Check gear box oil level and leakage.				○			*
	Replace gear box oil. Oil amount: 800 cc (0.70 Imp qt, 0.85 US qt) Oil type: SAE90 gear oil						●	8-23
Battery	Check electrolyte level.	○	○					8-24
	Check specific gravity of electrolyte.				○			9-2

Item	Remarks	Every							Page
		Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000 mls 8000 kms (4 yrs)		
Brakes	Check operation and adjust if necessary.	○							
	Adjustment: Brake wire end play. [0.1 ~ 0.5 mm (0.004 ~ 0.02 in)]		○					8-25	
	Check for wear or damage parking brake ratchet and stopper.			○				8-26	
	Check shoe lining thickness. Wear limit: 1.0 mm (0.04 in)			○				8-27	
Steering	Check operation and adjust if necessary.	○						6-4	
	Check gear box for grease leakage. Grease amount: 90 cc (3.17 Imp oz, 3.04 US oz) Grease type: Multi type grease						○	*	
	Adjustment: Wheel alignment [Toe-in: Unloaded 0 ± 5 mm (0 ± 0.2 in) Fully loaded 0 mm (0 in)]				○			8-29	
	Check kingpin play.				○			*	
	Check seal, cap of kingpin or far damage.				○			*	
	Lubricate kingpin.				●			*	
Wheel	Check tire pressure and correct if necessary. Front and rear: 137 ~ 157 Kpa (1.4 ~ 1.6 kg/cm², 20 ~ 23 psi)	○						6-4	
	Check tire groove depth or far damage. Wear limit: 1.0 mm (0.04 in)				○			6-4	
	Check tire surface for damage, cracks, or hard objects embedded.	○			○				

Item	Remarks	Every						Page
		Pre-Operation	20 Rounds 20 hours 100 miles 160 kms (1 month)	125 rds 125 hrs 600 mls 1000 kms (6months)	250 rds 250 hrs 1200 mls 2000 kms (1 year)	500 rds 500 hrs 2500 mls 4000 kms (2 yrs)	1000 rds 1000 hrs 5000 mls 8000 kms (4 yrs)	
Body & Chassis	Check tightness of wheel nut.				○			
	Check wheel rims for damage.				○			
	Check for play front wheel bearing.				○			
	Check for play rear axle bearing.				○			*
	Check rear axle for cracks, or distortion.				○			*
	Check body and chassis for damage.				○			*
	Check tightness of all bolts, nuts and screws.				○			*
	Check shocks absorber for oil leakage.				○			*
Starter	Check coil spring for cracks, or damage.				○			*
	Check starter V-belt for damage, tension and tightness.				○			8-17
	Check brushes for wear. Wear limit: 15 mm (0.59 in)					○		8-31
Accelerator stop switch	Check commutator for dirt					○		*
	Check operation, and adjust if necessary.				○			8-32
Back-up buzzer	Check operation.	○						
IMPORTANT: Keep high pressure water away from all electric parts; solenoid and connector.								

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



VALVE CLEARANCE ADJUSTMENT

1. Remove:
 - Spark plug
 - Cylinder head cover
2. Measure:
 - Valve clearance
 Out of specification → Adjust.

Valve clearance (IN. EX.)
0.1 mm (0.004 in)

NOTE:

- Be sure piston is at Top Dead Center (TDC) on compression stroke when measuring clearance.
- Valve clearance must be measured when the engine is cool to the touch.

Valve clearance adjustment steps:

- Set the piston at top dead center (TDC) on compression stroke by rotating the primary sheave by hand.

NOTE:

You can find the TDC by inserting a screw driver ① into the spark plug hole.

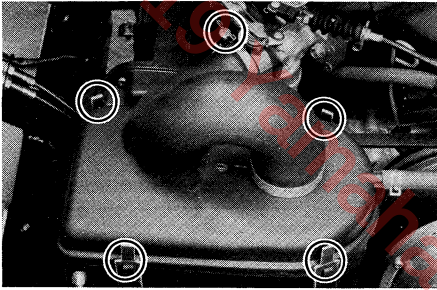
- Loosen the locknut ① while holding the adjusting screw with Valve Adjuster ②.

Valve Adjuster:
YM-08035

- Insert the feeler gauge (specified thickness) ③.
- Screw in the adjusting screw ④ until the rocker arm ⑤ contacts feeler gauge lightly.
- Tighten the locknut ① while holding the adjusting screw with Valve Adjuster ②.

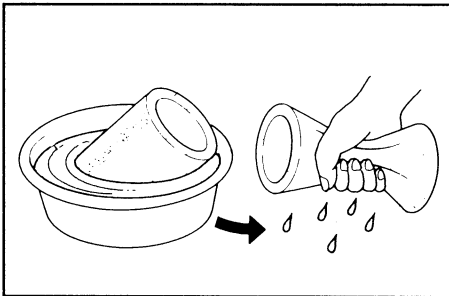
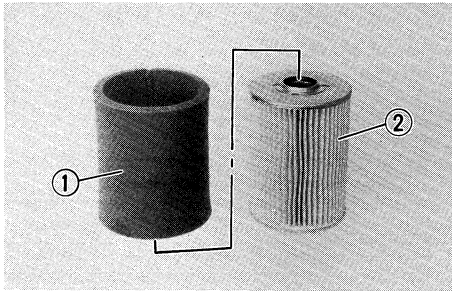
NOTE: _____
Check feeler gauge fit. It should have a noticeable drag but not require excessive force.

Locknut:
14 Nm (1.4 m • kg, 10 ft • lb)



AIR FILTER CLEANING

1. Disconnect:
 - Rubber joint ①
From carburetor.
2. Unhook:
 - Rubber hooks ②
3. Remove:
 - Case cap ③
4. Remove:
 - Element cover ①
 - Air filter element ②
From the case cap.
5. Clean:
 - Element cover ①
Wash it with solvent, or soap and water.
And allow it to dry.
 - Air filter element
Tap it by hand to remove the dust.

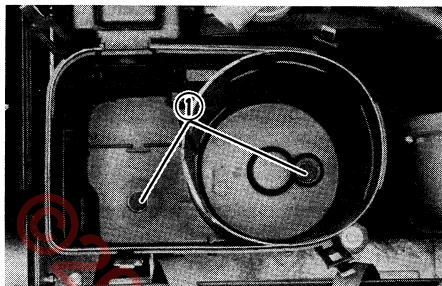


⚠ WARNING

Do not use a low flash point solvent.

IMPORTANT:

- Do not apply oil to the element cover; resistance to air flow will be increased and adversely affect the performance.



- Do not use filters made from any other material. Engine life will be reduced.

6. Install:

- All components

NOTE:

When assembling the air filter, reverse the removal procedure. Note the following point.

IMPORTANT:

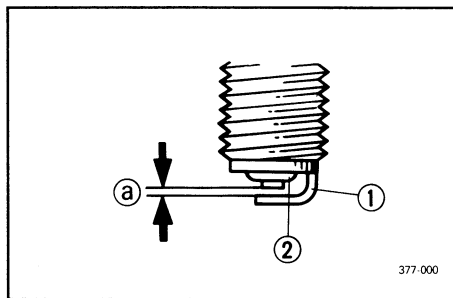
Be careful not to dislodge the O-ring sealing of the element onto the case cap. Lightly oil the O-ring and install element with a twisting motion.

- ① Grommet

SPARK PLUG INSPECTION

1. Remove:
 - Spark plug
2. Inspect:
 - Spark plug type
Incorrect → Replace.

**Standard Spark Plug:
BR4ES (NGK)**



3. Inspect:
 - Electrode ①
Wear/Damage → Replace.
 - Insulator ②
Abnormal color → Replace.
Normal color is a medium-to-light tan color.
4. Clean:
 - Spark plug
Use a spark plug cleaner or wire brush.

5. Measure:

- Plug gap ①
Use a Wire Gauge or Feeler Gauge.
Out of specification → Regap.

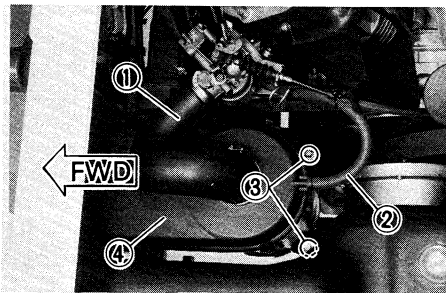
Spark Plug Gap:
0.7 ~ 0.8 mm
(0.028 ~ 0.031 in)

6. Tighten:

- Spark plug

Spark plug:
20 Nm (2.0 m • kg, 14 ft • lb)

8



ENGINE BRACKET ADJUSTMENT

1. Disconnect:

- Rubber joint ①
From the carburetor.
- Blow-by hose ②

2. Remove:

- Holding bolts ③
- Air cleaner case ④

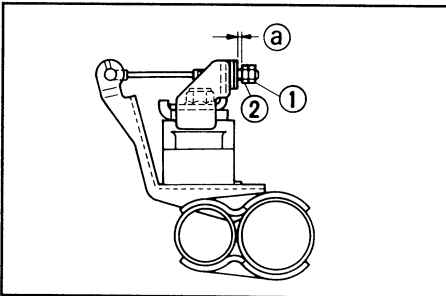
NOTE:

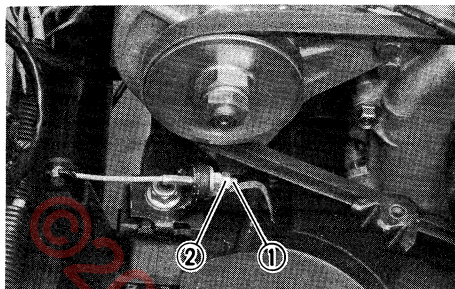
When removing the case, push it toward the front.

3. Measure:

- Free play ① (Engine bracket tensioner)
Out of specification → Adjust.

Engine Bracket Tensioner:
Free play ①: 2 mm (0.08 in)





Free play adjustment steps:

- Loosen the locknut ①.
- Adjust free play by turning the lock-nuts.

To Reduce → Turn locknut ② clockwise.

To Increase → Turn locknut ② counterclockwise.

- Tighten the locknuts.

ENGINE OIL LEVEL MEASUREMENT

1. Place the vehicle on a level area.
2. Inspect:

- Engine oil level
- Oil level low → Add sufficient oil.

Engine oil level measurement step:

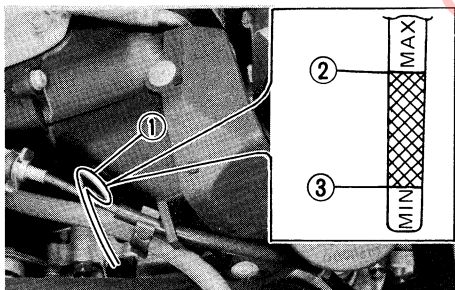
- Open the cargo bed.
- Remove the dip stick ①, and wipe it with clean rag.
- Insert the stick into the hole, and then just rest it in the crankcase.
- Pull up the dip stick, and inspect the oil level whether or not it is between maximum ② and minimum level ③.

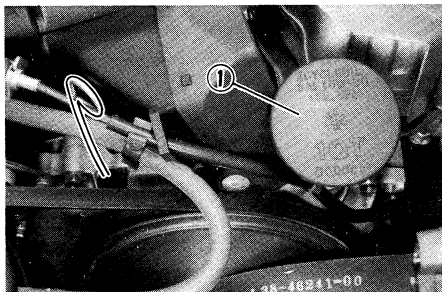
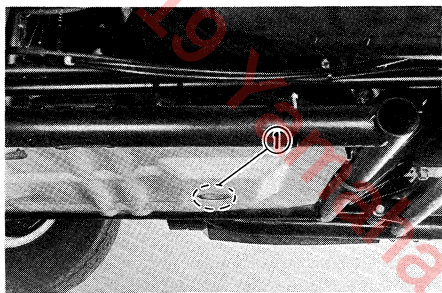
Recommended Oil:

SAE 10W30 type SE or
SF motor oil

Oil Quantity:

1.1L (1.0 Imp qt, 1.0 US qt)





NOTE: _____
Recommended engine oil classification;
API Service "SE", "SF" type or equivalent (e.g. "SF-SE", "SF-SE-CC", "SF-SE-SD" etc.).

IMPORTANT: _____

Do not allow foreign material to enter the engine.

ENGINE OIL REPLACEMENT

1. Place the vehicle on a level area.
2. Warm up the engine for several minutes, then place an oil pan under the engine.
3. Remove:
 - Drain plug ⑪
 Drain the engine oil.

4. Tighten:
 - Drain plug

Drain Plug:

30 Nm (3.0 m • kg, 22 ft • lb)

5. Remove:
 - Filler cap ⑫
6. Fill:
 - Crankcase

Recommended Oil:

SAE 10W30 type SE or
SF motor oil

Oil Quantity:

1.1 L (1 Imp qt, 1.0 US qt)

NOTE: _____
Recommended engine oil classification;
API Service "SE", "SF" type or equivalent (e.g. "SF-SE", "SF-SE-CC", "SF-SE-SD" etc.).

IMPORTANT:

Do not allow foreign material to enter the engine.

7. Install:
- Filler cap

NOTE:
It is acceptable to change the oil more frequently if desired.

THROTTLE CABLE ADJUSTMENT
Full Throttle Adjustment

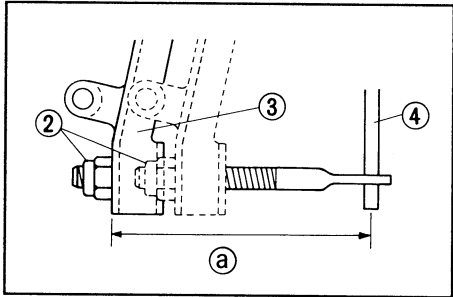
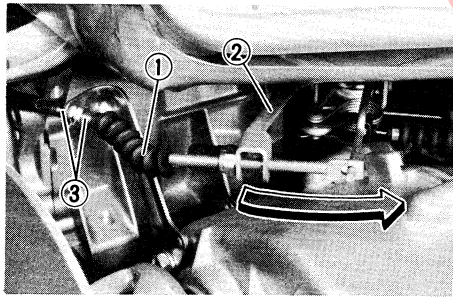
1. Turn the main switch to "OFF"
2. Block the wheel with wheel stoppers.
3. Open the cargo bed

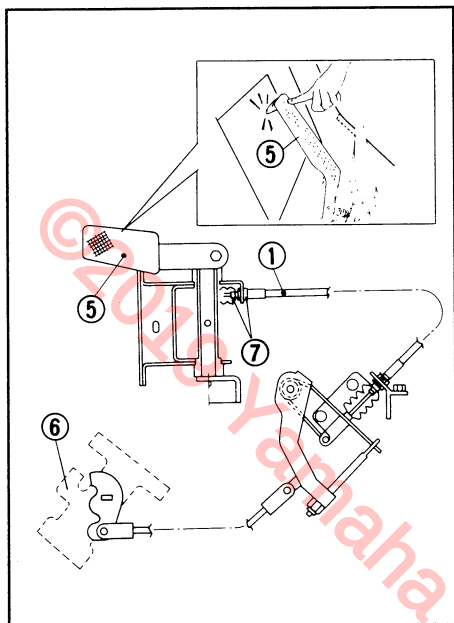
4. Adjust:
- Throttle cable 2 (Governor-Carburetor) ①

Throttle cable 2 adjustment steps:

- Swing the governor lever ② counter-clock-wise until it stops completely.
- While keeping the lever at this position, check that the throttle valve in the carburetor is fully open.
- If not, adjust the throttle cable 2 ① by turning the adjusting nuts ③ in or out.

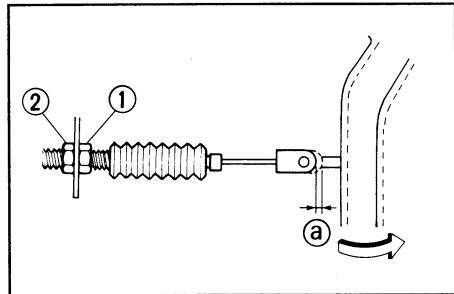
5. Adjust:
- Throttle cable 1 (Accelerator pedal-Governor) ①





Throttle cable 1 adjustment steps:

- Screw out the locknut ② in the governor lever ③ to make longest distance ①.
- ④ Torsion spring
- Depress the accelerator pedal ⑤ to limit.
- While keeping the pedal at this position, check that the throttle valve in the carburetor ⑥ is fully open.
- If not, adjust the throttle cable 1 ① by turning the adjusting nuts ⑦ in or out.
- Adjust the speed limiter to initial setting.



Free play adjustment

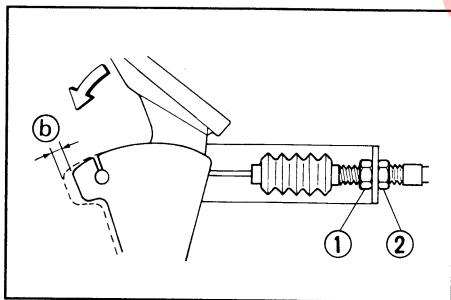
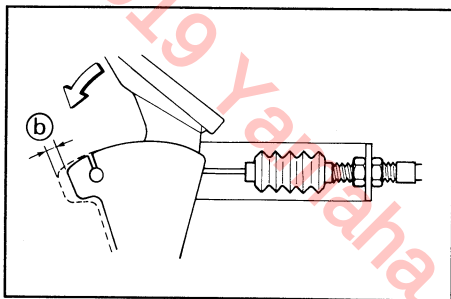
1. Measure:

- Free play (Throttle cable 2) ①
- Out of specification → Adjust.

Free Play (Throttle Cable 2):
0.5 mm (0.02 in)

2. Adjust:

- Free play (Throttle cable 2)



Throttle cable 2 free play adjustment steps:

- Loosen the locknut ①.
- Turn the adjuster ② in or out until the correct free play is obtained.

Turn in Free play is decreased.

Turn out Free play is increased.

- Tighten the locknut.

3. Measure:

- Free play (Throttle cable 1) ⑥
Out of specification → Adjust.

Free Play (Throttle Cable 1):
0.2 ~ 0.5 mm
(0.008 ~ 0.020 in)

4. Adjust:

- Free play (Throttle cable 1) ⑥

Throttle cable 1 free play adjustment steps:

- Loosen the locknut ①.
- Turn the adjuster ② in or out until the correct free play is obtained.

Turn in Free play is decreased.

Turn out Free play is increased.

- Tighten the locknut.

CHOKE CABLE ADJUSTMENT

1. Measure:

- Free play (Choke cable) ①
Out of specification → Adjust.

**Free Play (Choke Cable) ①
1.0 mm (0.04 in)**

① Cable clamp

2. Adjust:

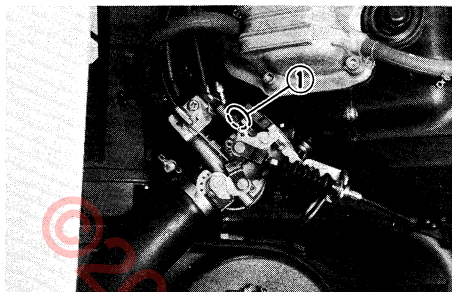
- Free play (Choke cable)

Choke cable free play adjustment steps:

- Pull the choke knob until it stops.
- Loosen the cable clamp screw ①.
- Align the match mark ② with the stopper ③ on the carburetor body.
- Tighten the cable clamp screw.

NOTE:

After adjusting the choke cable, make sure that the choke moves smoothly.



CARBURETOR ADJUSTMENT

1. Adjust:

- Pilot screw ①

Pilot screw adjustment steps:

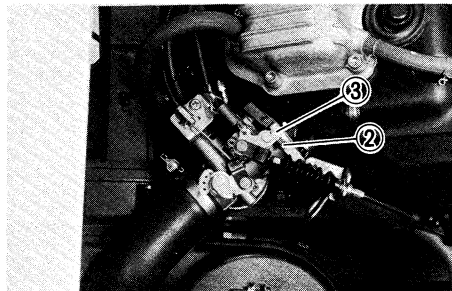
- Lightly screw in the pilot screw ①.
- Back it out from its seated position.

STANDARD TURNED OUT:
1 and 1/2

- Adjust mixture by turning the pilot screw 1/8 ~ 1/4 turn each time.

Too Lean → Turn pilot screw clockwise.

Too Rich → Turn pilot screw counter clockwise.



2. Adjust:

- Throttle stop screw ②

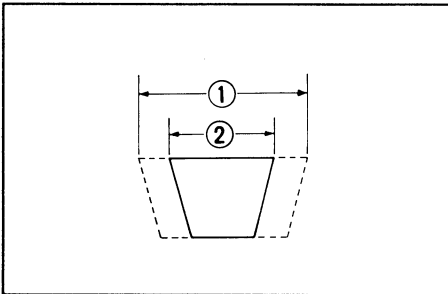
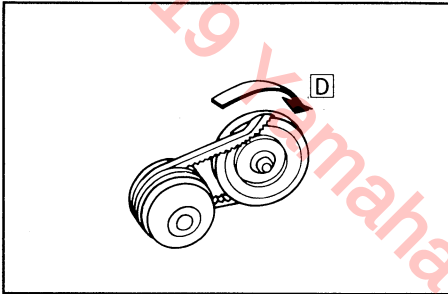
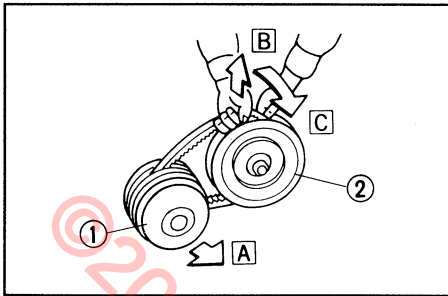
Throttle stop screw adjustment steps:

- Screw out the throttle stop screw ② to clear the throttle arm ③.
- Slowly screw in the throttle stop screw ② until it is lightly touching the throttle arm ③, and give it another 1/4 turn.

Standard Turned In:
1/4

IMPORTANT:

Do not use any other setting or adverse performance will result.



DRIVE BELT INSPECTION

1. Remove the seat.
2. Remove the drive belt.

Drive belt removal steps:

- Set the shift lever to neutral position.
- Pull out the primary sliding sheave ① : A .
- Jerk up the belt B , push the belt outward over the edge of the secondary fixed sheave ② : C .
- Rotate the secondary sheave clockwise: D and the belt will roll off of the secondary sheave.
- Slip the belt over the primary sheave to completely remove.

8

3. Inspect:

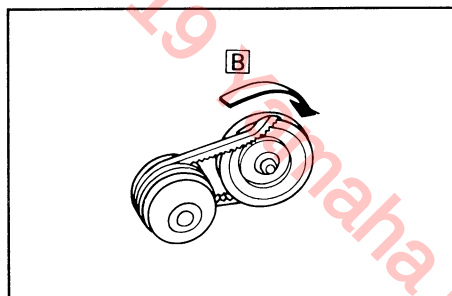
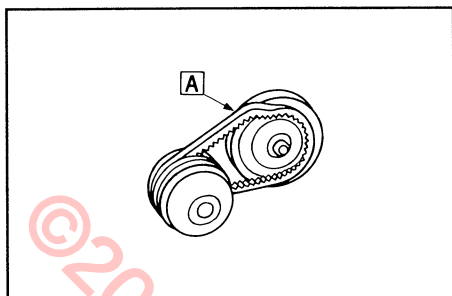
- Drive belt
Scratches/Slippage/Damage → Replace.

4. Measure:

- Belt width
Out of specification → Replace.

Wear Limit ②:
27.0 mm (1.06 in)

- ① New belt width: 31.0 mm (1.22 in)



5. Install the drive belt.

Drive belt installation steps:

- Set the shift lever to neutral position.
- Slip the belt over the primary sheave.
- Push the belt firmly into the secondary sheave at about the 10:00 o'clock position: **A**.
- Rotate the secondary sheave clockwise until the belt has rolled into complete position on the secondary sheave: **B**.

STARTER BELT INSPECTION

1. Check:

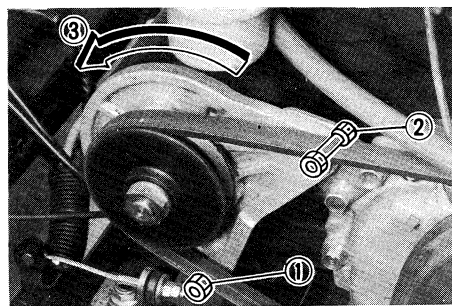
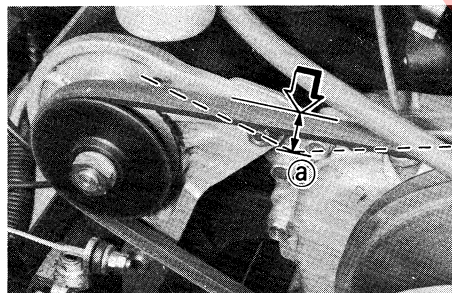
- Belt tension
Out of specification → Adjust.

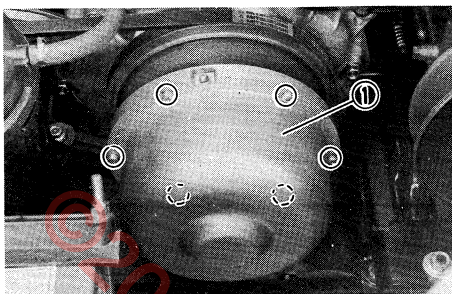
Starter Belt Tension (a) :
8 ~ 12 mm/10 kg
(0.31 ~ 0.47 in/22 lb)

Belt tension adjustment steps:

- Loosen the nut ①.
- Loosen the belt tension bolt ②.
- Adjust the tension by swinging the starter ③.
- Tighten the tension bolt ② first, then tighten the nut ①.

Belt Tension Bolt-Nut ②:
14 Nm (1.4 m • kg, 10 ft • lb)
Holding Bolt-Nut ①
53 Nm (5.3 m • kg, 38 ft • lb)

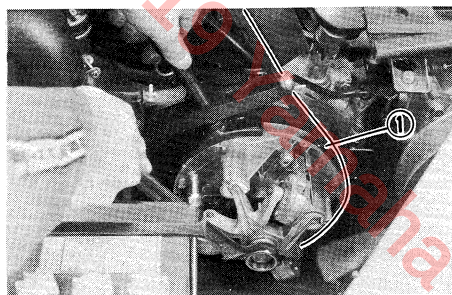




PRIMARY SHEAVE

1. Remove:

- Screws
- Primary sheave cap ①



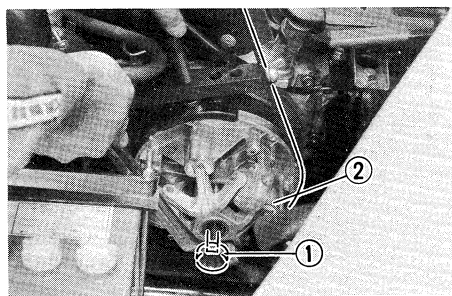
2. Attach:

- Primary Sheave Holder ①

**Primary Sheave Holder:
YG-01880**

3. Remove:

- Bolt (Primary Sheave)



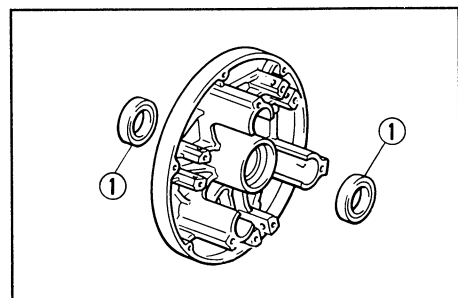
4. Attach:

- Primary Sheave Puller ①

**Primary Sheave Puller:
YG-01876**

5. Remove:

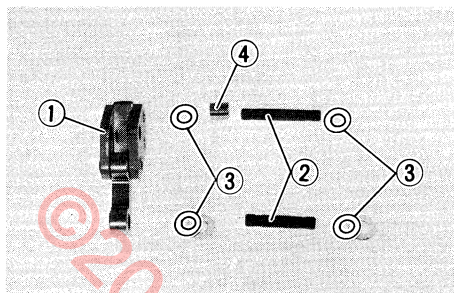
- Primary sheave assembly ②
When removing the sheave ②,
tighten the sheave puller ①.



INSPECTION

1. Inspection:

- Oil seal (Sliding sheave) ①
Wear/Damage → Replace.



2. Inspect:

- Weight ①
Unsmooth operation/Damage → Replace.
- Pivot pin ②
- Plastic washer ③
- Collar ④
- Slider
Wear/Scratches/Damage → Replace.

3. Grease the bushing ① and oil seal lips ② in side of the sliding sheave.

4. Install:

- Sliding sheave
Onto fixed sheave.

IMPORTANT:

Do not damage or deform the oil seal lips during installation.

5. Engage the serration in the spider with the fixed sheave.

NOTE:

The grease nipple ① must be positioned aligning with the line connecting the punch mark ② and the center ③ of the crankshaft. Refer to the illustration describing this position.

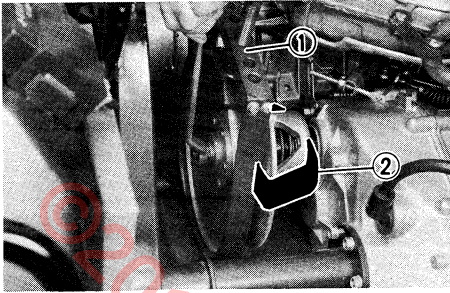
Recommended Grease:

Molybdenum disulfide grease

Grease Amount:

Three shots (Manual grease gun)

Three seconds (Automatic grease gun)



SECONDARY SHEAVE

1. Remove the drive belt.
2. Attach:
 - Primary Sheave Holder ①
 - Secondary Sheave Holder ②

Primary Sheave Holder:

YS-01880

Secondary Sheave Holder:

YG-40103

3. Remove:
 - Cotter pin
 - Sheave securing nut
 - Washer

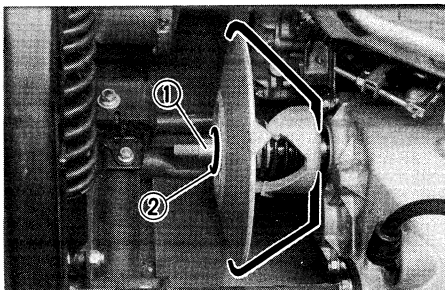
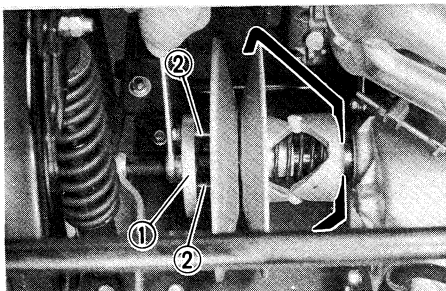
4. Attach:
 - 3-Way Universal Puller ①
 - 6 mm Bolt ②

3-Way Universal Puller:

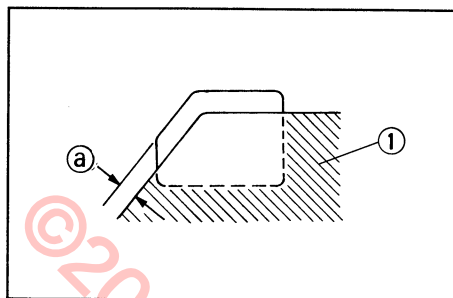
YU-90105

6 mm Bolt:

YU-90105-2



5. Remove:
 - Fixed sheave
 - Woodruff key ①
 - Plastic washer ②
(from the input shaft)
6. Remove:
 - Secondary Sheave Holder
When removing the Sheave Holder, push in the sliding sheave by hand.



7. Measure:

- Ramp shoe thickness (a)
Out of specification → Replace.

Wear Limit:

1.0 mm (0.04 in)

- ① Spring seat cam

8. Inspect:

- Oil seal

Wear/Damage → Replace.

ASSEMBLY

Reverse the "DISASSEMBLY" procedure.

Note the following points.

1. Install:

- Spring seat
Onto the input shaft.

2. Grease the bushing and oil seal lips inside of the sliding sheave.

3. Hook the spring end into the spring hole "B" ① in the sheave.

4. Install the spring and sliding sheave onto the input shaft.

5. Hook the other end of spring into the hole "4" ② in the spring seat.

6. Install:

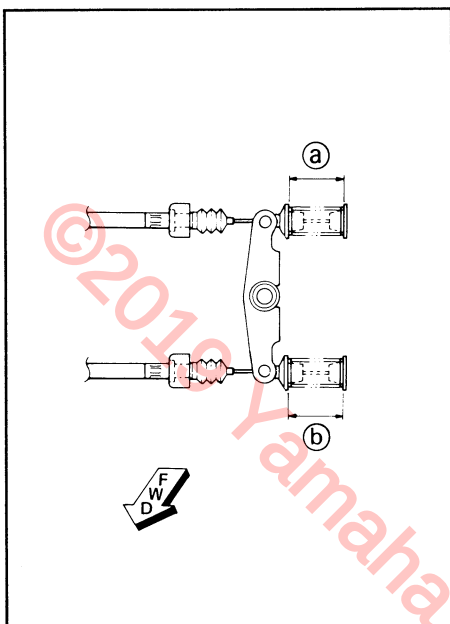
- Secondary Sheave Holder
Onto the sliding sheave.

Secondary sheave holder installation steps:

- Push the sliding sheave in while turning it approx 60° clockwise to preload the spring.
Then hold the sheave in this position.
- Hook the Secondary Sheave Holder onto the sliding sheave.

Secondary Sheave Holder:

YG-40103



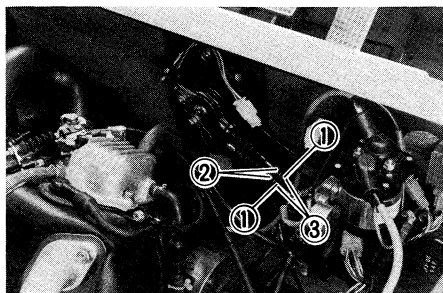
SHIFTING CABLE ADJUSTMENT

1. Remove:
 - Muffler assembly
2. Measure:
 - Shift stroke

Out of specification → Adjust.

Shift Stroke:

- ① = 18 ~ 20 mm
(0.7 ~ 0.79 in)
(at forward position)
- ② = 18 ~ 20 mm
(0.7 ~ 0.79 in)
(at reverse position)



Shift stroke adjustment:

- Shift the transmission completely to the forward/reverse position.
- Loosen the locknuts ②.
- Adjust the shift stroke by turning the adjuster ①.

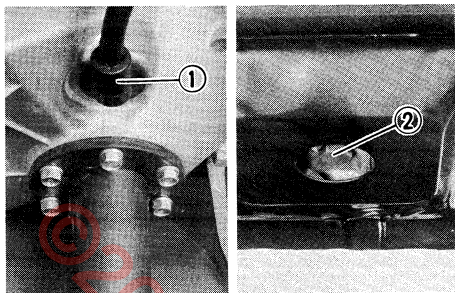
To Reduce → Turn adjuster ① clockwise.

To Increase → Turn adjuster ① counterclockwise.

- Tighten the locknuts ②, ③.

NOTE: _____

Check shifting operation when adjusting shift stroke.



8

TRANSMISSION OIL REPLACEMENT

1. Place the vehicle on a level area.
2. Place an oil pan under the transmission case.
3. Remove:
 - Vent cap ①
 - Drain plug ②
 Drain the transmission oil.

4. Tighten:
 - Drain plug

Drain Plug:
29 Nm (2.9 m • kg, 21 ft • lb)

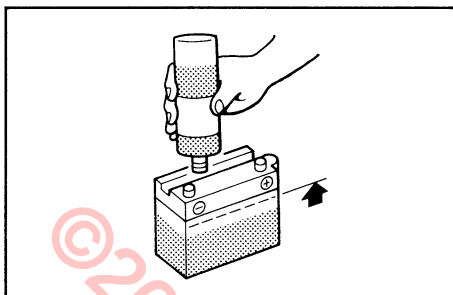
5. Fill:
 - Transmission case

Recommended Oil:
SAE 90 gear oil
Oil Quantity:
800 cc
(0.70 Imp qt, 0.85 US qt)

IMPORTANT:

Do not allow foreign material to enter the transmission case.

6. Install:
 - Vent cap



BATTERY

1. Check the fluid level and top up if necessary. Use only distilled water if refilling is necessary.

IMPORTANT:

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

⚠ 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.

Never smoke or make and brake connections at the battery while charging.

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

KEEP OUT OF REACH OF CHILDREN.

BRAKE CABLE INSPECTION

1. Remove:

- Service lid ①

2. Measure:

- Brake pedal free play ②
Out of specification → Adjust.

Brake pedal free play ②
25 ~ 30 mm (0.98 ~ 1.18 in)

Brake pedal free play adjustment steps:

- Loosen the locknut ①.
- Adjust the free play by turning the adjusting nut ②.

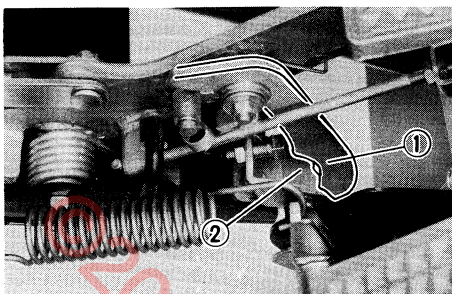
To Reduce → Turn adjusting nut ② clockwise.

To Increase → Turn adjusting nut ② counterclockwise.

- Tighten the locknut ①.

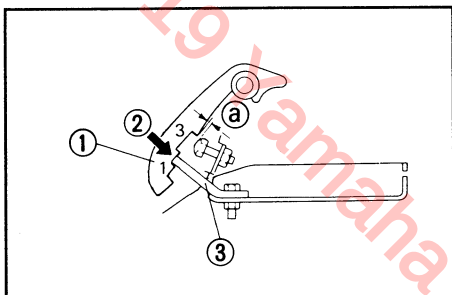
IMPORTANT:

Overly tight cables will prevent proper brake self-adjuster action.



PARKING BRAKE ADJUSTMENT

1. Turn the main switch to "OFF", and remove the key.
2. Remove the service lid.
3. Inspect:
 - Parking brake ratchet ①
 - Ratchet stopper ②
 Wear/Damage → Replace.



4. Apply the brake, hook the ratchet ① at the second position ② on the stopper ③.
5. Measure:
 - Free play (Release timing) ③
 Out of specification → Adjust.

Free Play (Release Timing):
1.0 mm (0.04 in)

8

Release timing adjustment steps:

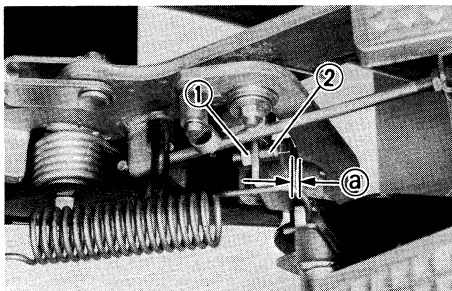
- Loosen the locknut ①.
- Adjust the release timing by turning the adjusting bolt ②.

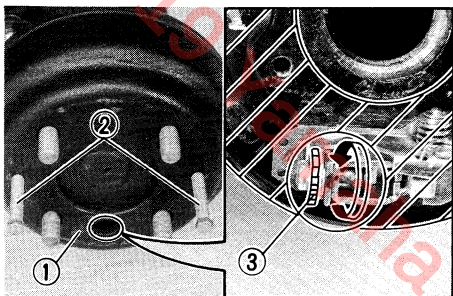
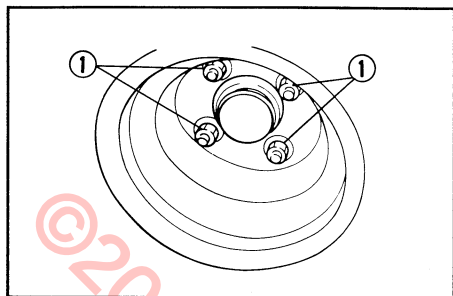
To Advance → Turn adjusting bolt ② counterclockwise.

To Retard → Turn adjusting bolt ② clockwise.

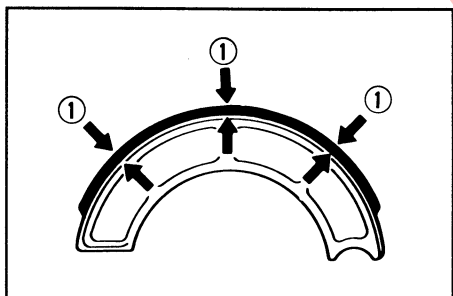
- Tighten the locknut ①.
- Recheck the release timing.

③ Release timing free play





8



BRAKE SHOE LINING INSPECTION

1. Turn the main switch to "OFF", and remove the key.
2. Apply parking brake, loosen the wheel nuts.
3. Jack up the rear of the vehicle. Block the front wheels.
4. Release parking brake by depressing the accelerator pedal.
5. Remove the wheel nuts ① and rear wheel.
6. Remove:

- Brake drum ①
To loosen the drum, install the 10 mm bolts ② onto the drum and screw them in.

NOTE: _____

If it is very hard to remove the drum, screw in the adjusting nut ③ in the shoe plate.

7. Measure:
 - Shoe lining thickness
Out of specification → Replace.

Wear Limit: 1.5 mm (0.06 in)

① Measuring points

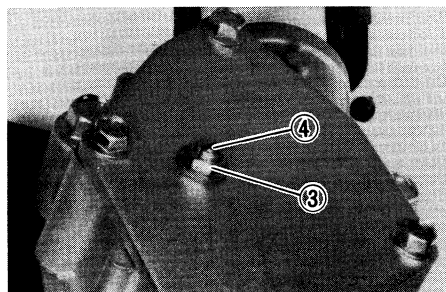
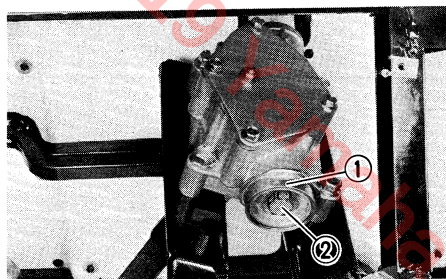
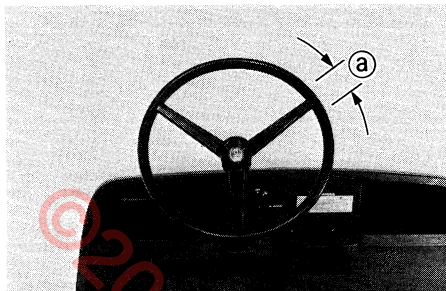
NOTE: _____

Replace the brake shoes as a set if either is found to be worn to the wear limit.

8. Install:
 - Brake drum
 - Rear wheel

⚠ WARNING _____

Make sure that no grease or water comes in contact with the brake drum and/or shoe surfaces.



STEERING WHEEL FREE PLAY ADJUSTMENT

1. Check:

- Steering wheel free play ①
Turn the steering wheel lightly.
Out of specification → Adjust.

Steering Wheel Free Play ① :
Limit: 30 mm (1.2 in)

Steering wheel free play adjustment steps:

- Loosen the locknut ①.
- Tighten the steering shaft adjusting bolt ② until the steering shaft does not move.
- Loosen the adjustment bolt ② completely.
- Retighten the adjustment bolt ② until the steering shaft has no axial looseness, but it rotates smoothly to both left and right full rotation.
- Tighten the locknut ①.

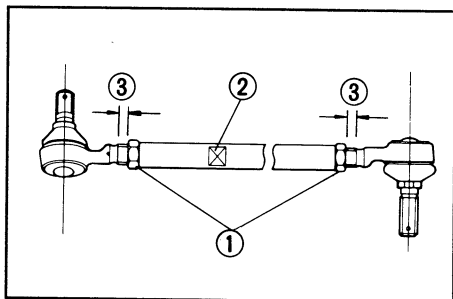
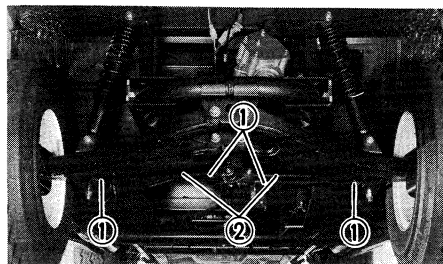
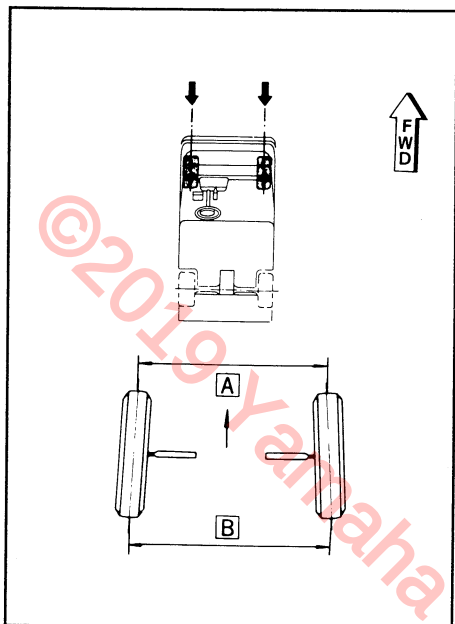
Locknut ①:

25 Nm (2.5 m • kg, 18 ft • lb)

- Loosen the locknut ③
- Tighten the pitman arm adjustment bolt ④ until the steering shaft does not move freely.
- Loosen the adjustment bolt ④ completely.
Then retighten it slowly until the bolt end lightly contacts the pitman arm.
- Tighten the locknut ③.

Locknut ③:

15 Nm (1.5 m • kg, 11 ft • lb)



WHEEL ALIGNMENT

Toe-In

1. Place the vehicle on a level area.
2. Measure:
 - Toe-in
Position the front wheels straight ahead.
Out of specification → Adjust.

Toe-In ([B] - [A]):

Unloaded:

0 ±5mm (0 ±2 in)

**Fully loaded: Zero mm
(Zero in)**

- [A]** CENTER-TO-CENTER AT FRONT SIDE TIRE TREAD.
- [B]** CENTER-TO-CENTER AT REAR SIDE TIRE TREAD.

Toe-in adjustment steps:

- Jack-up the front of the vehicle. Apply parking brake.
- Loosen the locknuts ①.
- Adjust the toe-in by turning the tie rods ②.

NOTE:

- When loosening or tightening the locknuts ①, hold the tie-rod at a flat section ② with a 19 mm wrench.
- The length of the threads ③ of both rod ends must be same.
- Tighten the locknuts.

Rod End Locknut:

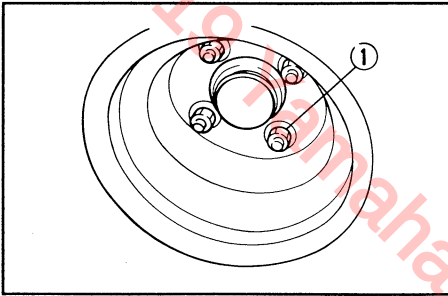
48 Nm (4.8 m • kg, 35 ft • lb)

- Place the vehicle back on the ground.
- Compress the suspension by standing on the front bumper.

3. Recheck:

- Toe-in

Out of specification → Repeat adjustment steps.



FRONT AND REAR WHEEL Replacement

1. Loosen the wheel nuts.

① Nut

NOTE: _____

Check the tire before loosening the nuts.

8

2. Raise the wheel using a jack and tire chocks.

IMPORTANT: _____

- Jack only under axle when removing rear wheels.
- Remove as much cargo as possible from bed and unhitch trailer before jacking vehicle.

3. Remove the wheel.

4. Reverse the removal steps when installing.

Wheel Nut Tightening Torque:

Front:	80 Nm (8.0 m • kg, 58 ft • lb)
Rear:	80 Nm (8.0 m • kg, 58 ft • lb)

NOTE: _____

Tightening the wheel nut after lowering the wheel.

BRAKES

Brake adjustment:

Brake are self-adjusting. Before the initial start on a new car, press down the brake pedal several times to make sure the brake function.

WARNING

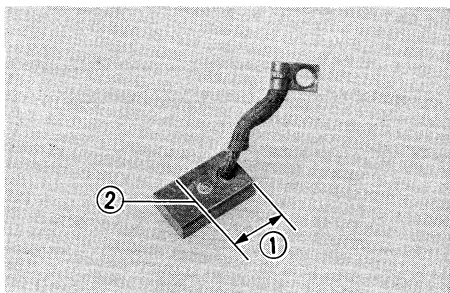
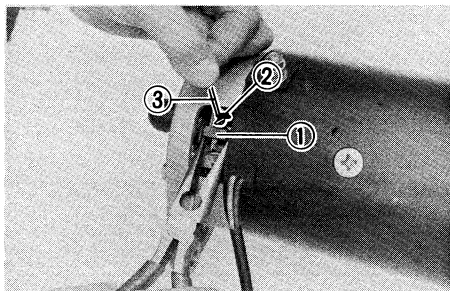
If the brakes do not adjust properly, consult a Yamaha dealer. You could have an accident if the brakes are not operating correctly.

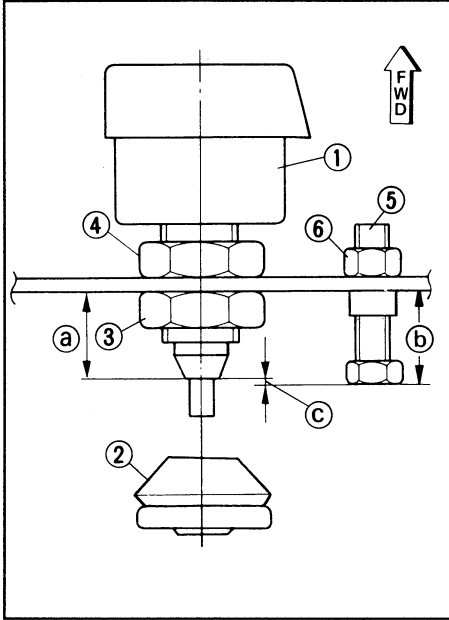
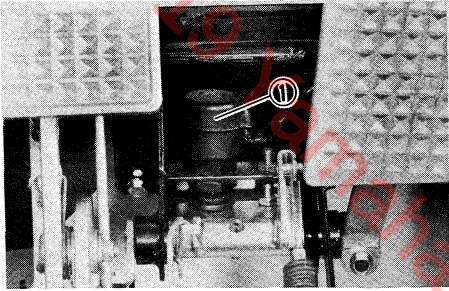
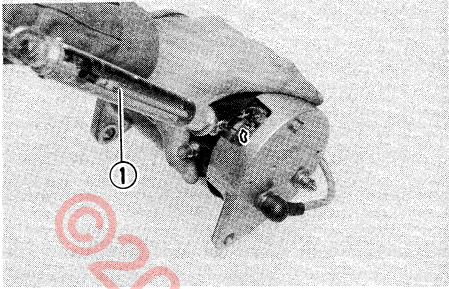
STARTER GENERATOR BRUSH INSPECTION

1. Remove:
 - Air cleaner case
2. Disconnect:
 - Starter generator leads
3. Remove:
 - V-belt
 - Starter generator
4. Remove:
 - Brush ①
Remove it while pulling up the brush spring ② with a spring puller (made from steel-wire) ③.
5. Measure:
 - Brush length
Out of specification → Replace.

Wear Limit ①:
15 mm (0.59 in)

② Wear indicator





6. Measure:

- Brush spring force
Use a spring scale ①.
Pull the scale until the brush spring just comes off the brush, check reading.
Out of specification → Replace.

Brush Spring Force:
300 ~ 500 g (10.6 ~ 17.6 oz)

ACCELERATOR STOP SWITCH ADJUSTMENT

1. Remove the service lid.
2. Check:
 - Operation timing (Accelerator stop switch ①)
Depress the accelerator pedal slowly.
If throttle valve opening occurs before accelerator stop switch clicks → Adjust the accelerator stop switch installing height.

8

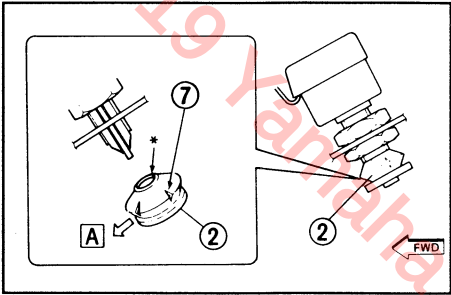
Switch installing height adjustment steps:

- Remove the rubber protector ②.
- Loosen the locknut ③.
- Adjust the installation height (a) by turning the locknut ④.

To Increase → Turn locknut ④ counterclockwise.

- Tighten the locknut ③.

Locknut ③:
5 Nm (0.5 m • kg, 3.6 ft • lb)



- Adjust the stopper bolt height (b) for the difference (c) .

Standard Switch Height (a) :
13.6 ~ 14.0 mm (0.54 ~ 0.55 in)
Standard Stopper Bolt Height (b) :
16.0 ~ 16.4 mm (0.63 ~ 0.65 in)
Difference (c) :
2.0 ~ 2.8 mm (0.08 ~ 0.09 in)

- ⑤ Stopper bolt
- ⑥ Locknut
- Install the rubber protector ②.

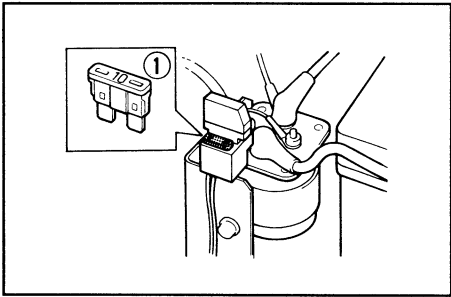
IMPORTANT: _____
Be sure to face one of the slots ⑦ downward [A] .

- Recheck the stop switch the click should occur before throttle valve opens.

FUSE REPLACEMENT

⚠ WARNING _____

Be sure to use specified fuse. A wrong fuse will cause electrical system damaged and A FIRE HAZARD.



IMPORTANT: _____

Be sure the main switch is turned off to prevent accidental short circuiting.

- ① Fuse case

Fuse	10A
------	-----

TROUBLESHOOTING

Engine won't start

1. Fuel system

No fuel supplied to combustion chamber.

- No fuel in tank ... Supply fuel
- Clogged fuel line ... Clean fuel line. Consult dealer.
- Foreign matter in fuel cock ... Clean fuel cock. Consult dealer.
- Clogged carburetor ... Clean carburetor. Consult dealer.

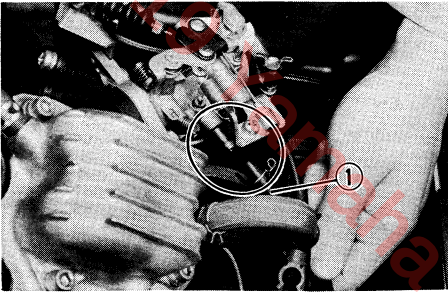
2. Electrical system

Poor spark

- Spark plug dirty with carbon or wet ... Remove carbon or wipe spark plug dry.
- Faulty ignition system ... Consult dealer.

STORAGE

Long term storage of your machine will require some preventive procedures to guard against deterioration.



DRAIN THE FUEL

1. Fill the fuel tank.
2. Drain the carburetor float bowl.

① Fuel line

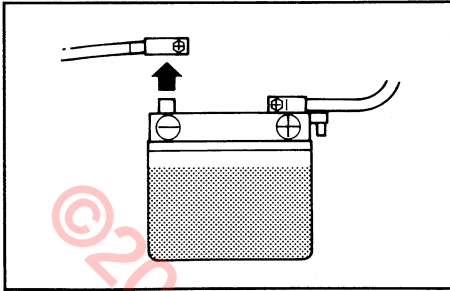
9

ENGINE

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

1. Increase the tire pressure to 25.6 psi (1.8 kg/cm²).
2. Clean exterior of the machine and apply a rust inhibitor.
3. Store the machine in a dry, well-ventilated place, with a cover place over it.



BATTERY

Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C (30°F) or more than 30°C (90°F)).

⚠ WARNING

- Disconnect the negative lead first, then positive lead from the battery.
- Connect the positive lead first, then negative lead to the battery when installing the battery.

SPECIFICATIONS

General specifications

Items	G11-A
Dimensions:	
Overall Length	3,050 mm (120 in)
Overall Width	1,280 mm (50.4 in)
Overall Height (Steering height)	1,200 mm (47.2 in)
Height of Floor	300 mm (11.8 in)
Wheelbase	1,900 mm (74.8 in)
Tread:	
Front	900 mm (35.4 in)
Rear	980 mm (38.6 in)
Min. Ground Clearance	115 mm (4.5 in)
Weight:	
Dry Weight (Without battery)	380 kg (838 lb)
Performance:	
Maximum Loading Limit	227 kg (500 lb)
Maximum Speed	19 km/h (12 mph)
Starter Generator Red Zone	4,000 r/min
Cranking Speed	Apprx. 800 r/min
Minimum Turning Radius	3.5 m (137.8 in)
Seating Capacity	2 persons
Hill Climbing Ability	12°(21% grade) on pavement

Maintenance specifications

ENGINE

Items	G11-A
Description:	
Engine Type	4-stroke, Gasoline, OHV
Number of Cylinder	Single
Displacement	285 cm ³
Bore x Stroke	73 × 68 mm (2.87 × 2.68 in)
Compression Ratio	8.1 : 1
Cooling System	Forced air cooled
Starting System	Starter
Ignition System	TCI
Spark Plug Type	BR4ES (NGK)
Spark Plug Gap	0.7 ~ 0.8 mm (0.028 ~ 0.031 in)
Lubrication System	Wet sump

CHASSIS

Items	G11-A
Transmission: Type V-belt Width and Outer Line Length V-belt Wear Limit	V-belt automatic centrifugal engagement $31 \times 1,010$ mm (1.22×39.76 in) 27 mm (1.06 in)
Differential/Reduction Gear: Differential Type Lubricant/Capacity	Bevel gear SAE 90 gear oil/ 800 cc (0.70 Imp qt, 0.85 US qt)
Governor: Type Factory Speed Setting	Oil bath flyweight 19 km/h (12 mph)
Steering System: Type Steering Angle (L.H.) (R.H.) Lubricant/Capacity	Worm and pin 1.5 turn 1.5 turn Grease/90 cc (3.17 Imp oz, 3.04 US oz)
Brakes: Brakes System Type of Brake Linkage Adjustment (Brake pedal free play)	Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Dual internal expanding shoe. Leading/Trailing shoes (self-adjusting) 25 ~ 30 mm (0.98 ~ 1.18 in)
Parking Brake: Type	Foot type; Parking brake with automatic release.
Release Timing (Bolt heads round parallel to arm)	1 mm (0.04 in)
Wheel: Tire Size: Front Rear Rim Size: Tire Pressure: Front/Rear	 $18 \times 8.5 - 8.00/4$ PR $18 \times 8.5 - 8.00$ /TURF 7.00 - 1 - 8.00 147 kPa (1.5 kg/cm ² , 21.3 psi)

ELECTRIC

Items	G11-A
Battery:	BCI Group 24, RC: minimum 70 min. CCA: minimum 300A

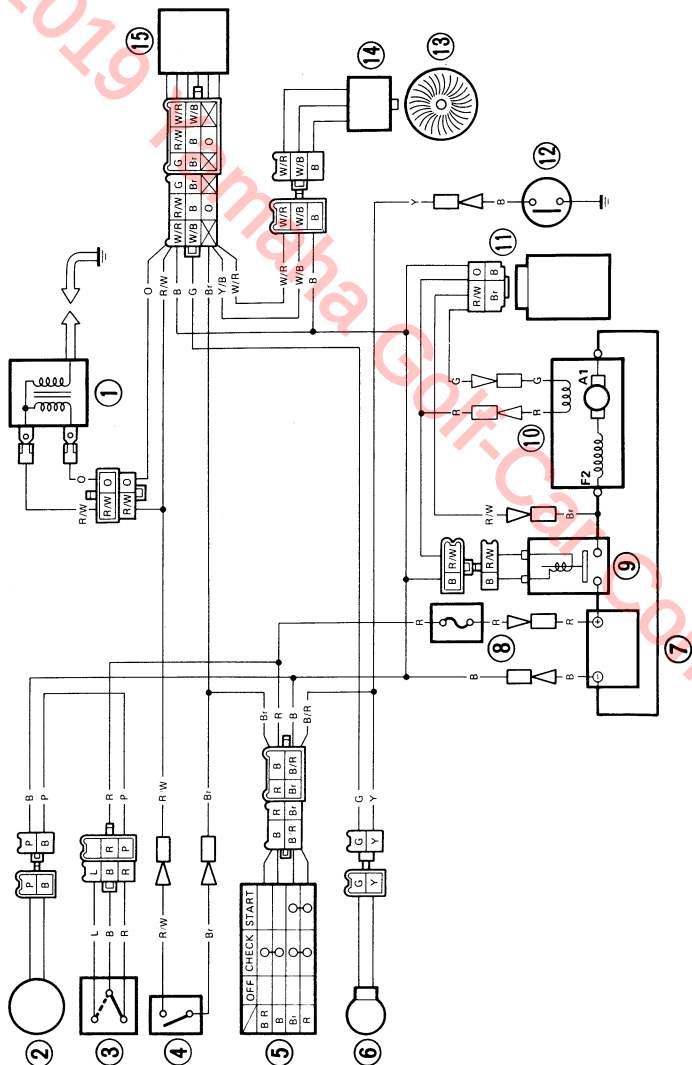
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WIRING DIAGRAM

- 1 Ignition coil
- 2 Buzzer
- 3 Back switch
- 4 Accelerator switch
- 5 Main switch
- 6 PILOT LAMP (12V, 3.4W)
- 7 Battery
- 8 Fuse (10A)
- 9 Relay
- 10 Starter generator
- 11 Voltage regulator
- 12 Oil level gauge
- 13 Rotor
- 14 Pick up
- 15 Ignitor

COLOR CODE

- B..... Black
 Y..... Yellow
 G..... Green
 R..... Red
 P..... Pink
 O..... Orange
 Br..... Brown
 B/R..... Black/Red
 R/W..... Red/White



— MEMO —

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YAMAHA
GENUINE
Parts & Accessories

01/10/01
1PC - G11A O/M

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Yamaha Motor Corp., USA
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