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Printed in Japan



# YAMAHA MOTOR CO., LTD.

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Congratulations. You are now the owner of a new Yamaha YR1. The YR1 is a high-performance, motorcycle manufactured by the leading manufacturer of motorcycles is Japan.

Won't use Boron gas

The YR1, the newest and top of the Yamaha line model is designed for competition and high-speed road use. It features a rugged, powerful 2-cycle twin engine and Auto Lube, the revolutionary lubricating system developed by Yamaha Technical Research Laboratory and proved in all Yamaha models.

This manual explains some steps necessary for operating and caring for your new motorcycles these read it carefully to become thorpuchy families with all four res and advantages built into your YR1.

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# CONTENTS

1	Special features and specifications	. 3
	I-I Special features	. 3
	I-2 Specifications	d
2	What is Yamaha Auto Lube ?	- (1
	Main parts	
4	Operating Instructions	
	4-1 What you should know before operating	
	4-1-1 Gasoline and Oil	
	4-1-2 Main switch	
	4-1-3 Fuel cock	15
	4-1-4 Handlebar switch & Horn button	15
	4-1-5 Steering lock key	-16
	4-1-6 Handle damper	16
	4-1-7 How to adjust the rear cushion	-17
	4-1-8 How to read the tachometer	
	4-2 What you should check before every driving	
	4-3 Starting, Shifting Gears, Stopping and Parking	
	4-3-1 Starting	
	4-3-2 Shifting gears	21
	4-3-3 Driving on hills	22
	4-3-4 Stopping and Parking	-23
	4-3-5 Emergency starting	-24
~	4-4 Breaking in period	-24
5	How to keep your motorcycle in top condition	
	5-1 Periodical service at Yamana Dealers	
	5-2-1 Daily inspection 5-2-2 Periodical inspection	-26
	5-3 Service tools and their use	-26
	5-3-1 Service tools	-27
	5-3-2 Use of the service tools	
	Brakes	
	Clutch	
	Gear oil	
	Battery	
	Spark plug	
	Air cleaner	0.0
	Carburetor	1348
	Drive chain	131
	Muffler	1313
	Fuel cock filter	.,0
	Bolts and nuts	-20
	Greasing and oiling	.20
6	Repair and troubleshooting charts	-20
-	6-1 Yamaha service	-30
	6-2 Genuine Yamaha parts	-30
	6-3 If a trouble should occur	.40
	6-4 Troubleshooting Charts	
	-	

# **1** Special Features and Specifications

# **1-1 Special Features**

I Advanced Engine with Auto Lube & Alunimium Cylinder

This highly sophisticated powuful 2-cycle engine when lubricated with Auto Lube develops 36 bhp at 7,500 rpm. After normal break-in you can expect outstanding acceleration and a top speed of over 100 mph. (160 km/h)

You can enjoy high-speed touring and competition to the fullest.

## 2 5-Speed Gearbox

A five speed transmission assures you of plenty of power in any driving situation.

## 3 Ease of Starting

A new carburetor with built-in starter jet makes the YR1 easy to start in cold or even freezing weather.

#### 4 Reliable Brakes

The front brake, which is more important for high speed road riding is a race bred twin leading shoe unit. Both brakes are sealed against dirt and water. This means that your brakes will work well in rain or on dirt roads.

#### 5 Adjustable Rear Suspension

The rear springs can be adjusted to suit changes of road surface, speed and load.

# 6 Comfortable Ride

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Years of painstaking research have gone into the design of the tubular frame and suspension. A great deal of time has been spent on seating position and control location. The result is an exceptionally well balanced machine which handles well, gives a silky ride and is never tiring to ride.

- 2 -

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- 3 --

# 1-2 Specifications YR1

Model		YAMAHA YR1
Dimensions	Overall length	81.1 in (2,060 mm)
	Overall width	28.9 in ( 735 mm)
	Overall height	39.4 in (1,000 mm)
	Wheel base	52.5 in (1,335 mm)
	Minimum road clearance	5.7 in ( 145 mm)
Weight	Dry	157 kg (346 lbs)
12.	Maximum speed	170 km/h (100~110 mph)
Perfor-	Fuel consumption(on paved	40 km/l 95 mpg (at 50 km/h)
mance	level road) Climbing capacity	26°
1	Braking distance	(13 m/50 km) 49 ft at 30 mph
1.1	Minimum turning radius	2.300 mm 90.5 in.
Engine	Model	YAMAHA RI
	Classification	Air-cooled, 2-cycle gasoline
	Lubricating system	Yamaha Auto Lube: automatic lubrication
	Number of cylinder	2, parallel
	Displacement	348 cc
	Bore Stroke	61×59.6 mm
	Compression ratio	7.5:1-
	Maximum power	36 bhp/7,500 rpm
	Maximum torque	3.3 kg-m / 7,000 rpm
	Starting system	Kick starter
	Ingition system	Battery ignition

Model		YAMAHA YR1		
Transmi- Primary reduction ratio		2.870 gear		
ssion	Secondary reduction r	atio (2.47) chain		
	Clutch	Wet, multiple-disk		
	Gear box	Constant mesh, 5-speed		
	Gear ratio Low	2.545 (total reduc. ratio)		
	Seco	nd 1.600 ( * )		
	Thir	d 1.168 (. ~ )		
	Four	th 0.950 ( * )		
	Тор	0.773 ( * )		
Body	Frame	Cradle-type tube frame		
	Front suspension	Telescopic(coil spring damper)		
	Rear suspension	Swinging arm(coil spring oil dampe		
Steering	Steering angle	40°		
	Caster	63°		
	Trail	88.5 mm		
Brakes	Туре	Internal expanding		
	Front	Right hand, wire		
Υ., '	Rear	Right foot, wire		
Tires	Front	3.00-18-4P.R.		
	Rear	3.50-18-4P.R.		
Tanks	Gasoline tank capaci	y 15 ℓ (3.3 gal)		
	Oil tank capacity			

- 4 -

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- 5 -

# 2 What is Yamaha Auto Lube?

Auto Lube is the best lubricating system available for 2-cycle engines. It eliminates the need for mixing oil and gasoline. The amount of oil injected into the manifold is controlled by a compact, high-precision oil pump. The plunger pump, driven by the reduction gear has its displacement controlled by the throttle opening.

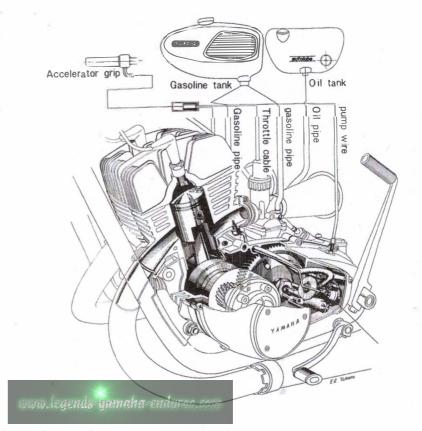
The rate of injection varies with engine speed and load as indicated by throttle opening. Because of the wide range of control Auto Lube offers, precisely the right amount of oil is available at all times.

Auto Lube eliminates a number of major problems unavoidable with pre-mix lubrication. This means both improved performance and reliability.

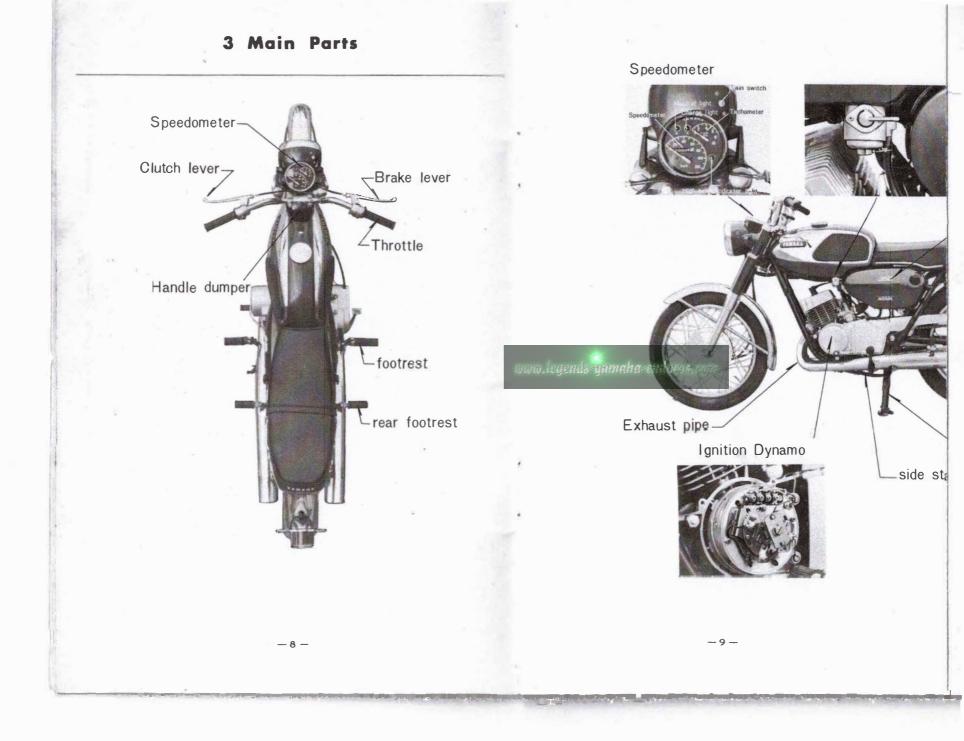
# Yamaha Auto Lube Features:

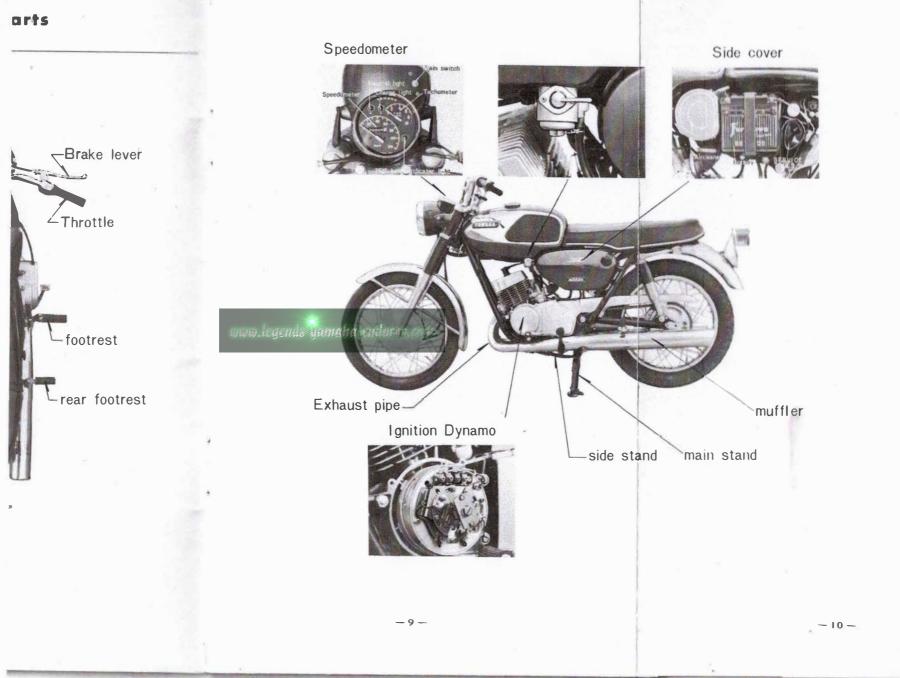
- 1. Oil consumption is greatly reduced.
- 2. More effective lubrication results because the oil enters the engine in larger size droplets.
- 3. There is much less unwanted carbon deposited on the spark plugs, cylinder heads, pistons and exhaust system!
- 4. There is much less exhaust smoke.
- 5. Refueling is simplified.
- 6. Because poor quality oils can easily be avoided, and because the possibility of mismeasuring or inadequately mixing fuel is eliminated, Auto Lube offers completely consistent lubrication.

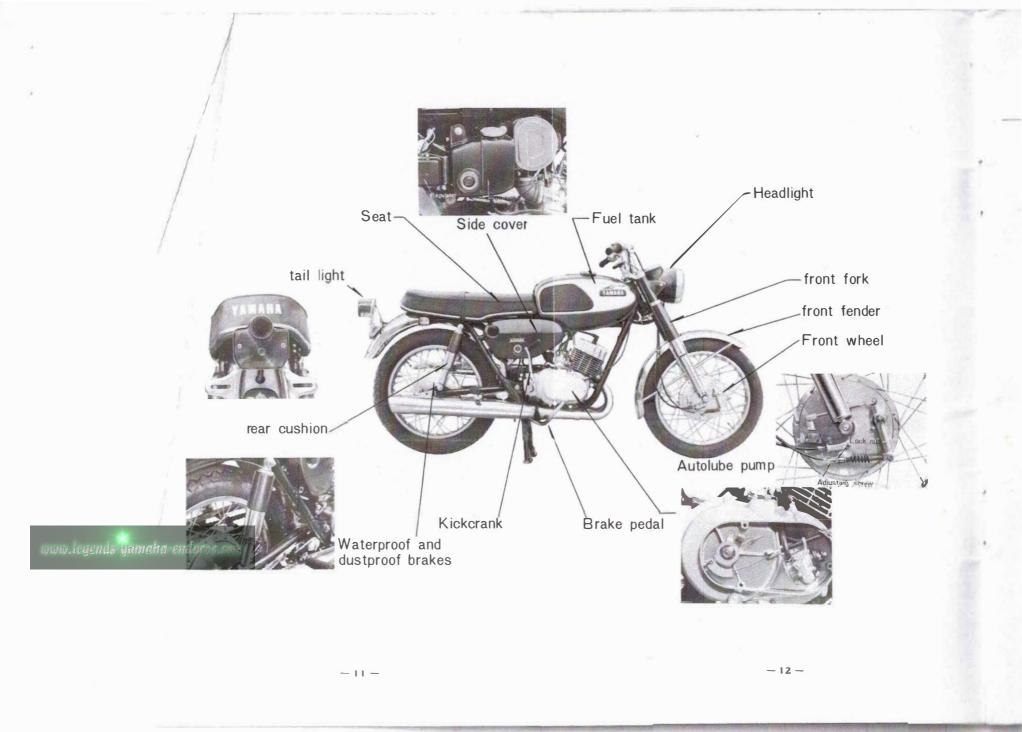
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# 4-1 What you should know before operating

# 4-1-1 Gasoline and Oil

Since it is unnecessary to mix fuel and oil with Auto Lube, gas can be pumped directly into the fuel tank. The oil tank is located on the righthand side of the machine. The minimum octane required to avoid preignition is 72. It is not necessary to use premium fuel. Use SAE 30 MS oil in the Auto Lube system. High detergent oils are desirable though not necessary. A multi-viscosity oil like SAE 10-20-30 MS is also acceptable. Find the best oil available in your area and use this brand consistently. Your dealer will be able to help you in your selection. The few pennies you save by using low grade oils will not pay for damage they often do.



- 13 --

gends-uamaha-enduros co muffler and `main stand

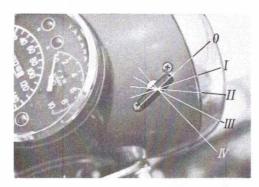
- 10 -

Side cover

# 4-1-2 Main switch

The following chart shows the key position at which the lights, horn and ignition circuit are switched on or off:

Parts Name	Key Position						
Parts Name	0	1	Π	- 11	IV	Instructions	
Ignition circuit	off	on	on	on	off	I & IKick starting	
Headlight	off	off	on	off	off	Use N when parking at night.	
Taillight	ofí	off	on	off	on	Turn on left handlebar switch	
Stop light	off	on	on	off	off	Goes on when gear is shifted	
Neutral lamp	off	on	on	off	off	into neutral.	
Charge lamp	off	on	on	off	off	Goes off when engine starts.	
Meter lamp	off	off	on	off	off		
Horn	off	on	on	off	off	Press horn button.	



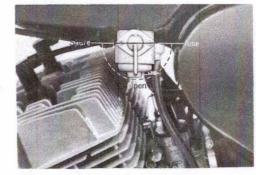
- O When stopped
- I Day driving
- I Night driving
- Emergency starting

- 14 -

IV Night parking

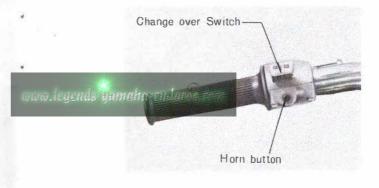
4-1-3 Fuel Cock

To fill the carburetor float bowels, set the fuel cock lever in the open position. If you should run out of fuel on the road, turn the lever to the spare position. With just over a quart of fuel, you can drive nearly 25 miles—enough to get you to the nearest service station for refueling. When parking or storing your machine, be sure that the lever is in the closed position



4-1-4 Handlebar switch & Horn button

Name	Instructions	Where located	
Horn button (a	Press.	on left side of handlebar	
Headlight beam switcl (b	To lower the beam, push toward the left; To raise the beam, push	on left side of handlebar (See the photo below)	
-	toward the right.		



#### 4-1-5 Steering Lock Key

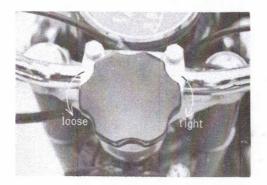
Turn the handle bars to the left lock, insert the steering lock key and turn it 90° counterclockwise. Remove the key after checking to see that the front forks are securely locked. Be sure to lock your forks whenever you park.



#### 4-1-6 Steering Damper

When driving on rough roads, adjust the steering damper to absorb shock by turning it clockwise.

To get heavier steering, turn the damper knob clockwise. To get lighter steering, turn the damper knob counterclockwise.

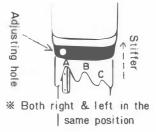


- 16 -

#### 4-1-7 How to Adjust the Rear Suspension

Insert the screwdriver from your rider's tool kit in the adjusting hole. Turn the notched collar to change the spring rate. The rear suspension should be adjusted to fit your load, speed and road conditions.

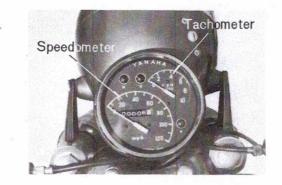




## 4-1-8 How to Read the Tachometer

The speedometer of your YR1 has a built-in tachometer which indicates crankshaft speed. By using the "tach" you will know exactly when to shift for maximum performance. A road racer, for instance, is always kept in a 7,500 rpm range around the power peak (for the YR1,34.0 bhp @ 7,500 rpm.) For maximum performance accelerate in each gear to 7,500 rpm or at most to 8,000 rpm before shifting. The best range for city driving is 3,000 to 4,000 rpm. In this rage the engine has ample power and yet is quite docile. Never lug your engine! (The relation between engine speed and road speed for each gear ratio is shown in the diagram)below. It is recommended not to use red-zone 7,500~10,000 rpm.

-17-



-- 18 --

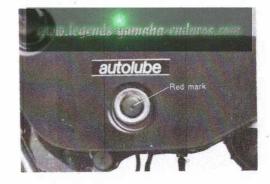
# 4-2 What you should check before riding

Before you start for a ride you should check several points for safety.

a Do you have enough fuel?

b Do you have enough oil ?

If the oil is below the red level mark in the glass port, add oil. Always use the best oil available.



## c Are your tire pressures correct?

Incorrect tire pressures affect the comfort, handling. acceleration and tire of your machine. Incorrect tire pressures can lead to accidents !

Tire	Pressure lbs per sq. in.			
Tire	1-person riding	2-person riding		
Front	22	22		
Rear	28	32		

d Do both brakes and the brake light work?

e Are the lights and horn in working order?

Check the headlight, tail light, speedometer lights and warning lights. The few minutes you save by not checking are not worth being stranded without lights !

-19-

# 4-3 Starting, Shifting gears, Stopping and Parking

# 4-3-1 Starting

a Before Starting

- 1. Turn the fuel cock lever to the "open" position.
- Insert the ignition key and turn it to "DRIVING". Make sure the neutral lamp is on.

CAUTION: Never start the engine unless you are in neutral.

b Starting in Cold Weather

Any engine is difficult to start in cold or freezing weather. The YR1, however, uses a new type carburetor with a built-in starter jet that gives a richer mixture for easier starter.

- 1. Depress the starter lever.
- 2. Start the engine with the kick starter keeping the throttle closed.



c Starting When Your Engine is Warm

When your engine is warm after riding or in the summer, don't use the starter lever.

Open the throttle slightly (1/2 turns or less) and kick the Starter.

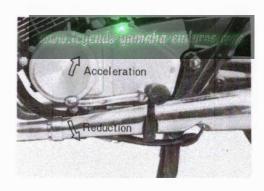
d Warming Up

To get maximum engine life, always "warm up" the engine for 1 or 2 minutes before starting off. Never accelerate hard with a cold engine! To see whether or not the engine is warm, see if it responds to throttle normally. Don't forget to release the starter lever.

#### 4-3-2 Shifting Gears

The YR1 has a 5-speed transmission. The transmission allows you to control the amount of power you have available at a given speed for starting, accelerating, climbing hills, etc. The use of the gear lever is illustrated below.

FIFTH FOURTH THIRD SECOND NEUTRAL LOW



To shift into NEUTRAL, depress the gear lever to the end of its travel (you will feel a stop when you are in low gear),: then raise it slightly.

If you are in neutral, the green lamp in the speedometer will be on.

- 1. Pull the clutch lever to disengage the clutch.
- 2. Shift into LOW.
- 3. Open the throttle gradually, and, at the same time, release the clutch lever slowly.
- 4. At 10 to 15 mph, release the throttle, and at the same time pull in the clutch lever quickly.
- 5. Shift into SECOND. Be careful not to shift into neutral.
- 6. Open the throttle part way and release the clutch lever.
- 7. To accelerate or decelerate, use the same procedure.
- Except for competition or high speed driving, shift so that the engine speed remains between 3,000 and 4,000 rpm.

Gear	Driving conditions	Optimum speed		
Low	Starting or hill climbing	0 to 10 mph		
Second	Hill climbing or going slowly	15 to 25 mph		
Third	On easy uphills or in streets	25 to 35 mph		
Fourth	On main roads	35 to 50 mph		
Fifth	High-speed running	50 or over		

#### 4-3-3 Driving on Hills

#### a Going Uphill

When starting to climb a gentle grade, open the throttle little by little to avoid loosing engine speed and power.

When climbing a steep grade, shift down from FIFTH to FOURTH or fom FOURTH to THIRD as required.

## b Going Downhill

On a long down grade or sharp descent, don't rely on the brakes alone, but use the engine compression as a brake: shift into

- 22 -

FOURTH or THIRD as required by the grade and release the throttle. required by the grade and release the throttle.

CAUTION: Never attempt turn off the ignition switch on a long hill. This will only cause the spark plug to foul.

#### 4-3-4 Stopping and Parking

#### a Stopping

- Be sure to apply the front and rear brakes together. Applying only one may, under certain conditions, cause skids.
- 2. Apply both brakes gently.
- 3. After stopping, be sure to shift into NEUTRAL.
- 4. Turn the fuel cock lever to "CLOSE."
- 5. Remove the ignition key.

## b Parking

- 1. Close the fuel cock and remove the ignition key.
- 2. Lock the handlebars by using the steering lock key.
- 3. When parking at night, turn the main switch key to "IV"-the taillight functions as a parking light.
- CAUTION: If the parking light is used for a long time, the battery will discharge. Avoid excessive use of it.

- 23 -

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# 4-3-5 Emergency Starting

If the battery is discharged, try push starting.

- 1. Turn the main switch to "III (EMERGENCY STARTING)".
- kick the kick starter lever through two or three times to get fuel into the engine.
- 3. Shift into THIRD or SECOND, disengage the clutch, and push the machine.
- When the machine is rolling at a reasonable speed release the clutch quickly and the engine will start.
- 5. As soon as the engine starts, disengage the clutch, stop the machine, shift into neutral, and turn the main switch to "I".

# 4-4 Break in period

During the first 600 miles, you can, by observing a few simple precautions, greatly increase the life of your YR1 and its performance. The following precautions will guarantee proper seating in for your engine.

During the first 300 miles, be sure to keep the engine below rpm.
 During the next 300 miles, be sure to keep the engine below rpm.

The rev limit in miles per hour for the break in period is given below.

Dire	E : DDM	Maximum Speed, mph				
Driving Distance	Engine RPM	Тор	Fourth	Third	Second	Low
0 to 300 miles	4,000	55	45	35	25	15
300 to 600 miles	5,000	60	50	40	30	20

3. Don't accelerate or decelerate suddenly. Use the throttle gently.

# 5 How to keep your Motorcycle in top condition

Regular inspection and maintenance help keep your motorcycle in top condition. They are preventative measures. Don't wait until something goes wrong.

# 5-1 Periodic service at Your Yamaha Dealer's

When you have reached 300, 1,000 and 3,000 miles, have your Yamaha dealer inspect and service the following things.

# **Periodical Inspection Guide**

		Driving	Distance	
Check Point	300 miles	1.000miles	3,000 miles	thereafter every 2.000 miles
Front & rear brakes adjustment	0	0	0	0
Clutch adjustment	0	0	0	0
Gear oil change	0	0	0	0
Greasing		0	0	0
Battery fluid	0	0	0	0
Spark plug	0	0	0	0
Ignition timing		0	0	0
Carburetor adjustment		0	0	0
Carburetor cleaning			0	0
Air cleaner cleaning		0	0	0
Cylinder head & piston cleaning		0	0	0
Muffler cleaning		0	0	0
Bolts & nuts tightening		0	0	0
Drive chain		0	0	0

- 24 -

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- 25 -

# 5-2-2 What you should do yourself.

In addition to the periodic inspections by your Yamaha dealer, it is wise to check the following things yourself once of twice a month. All these operations can be carried out with the tools in your rider's tool kit.

# **Periodic inspection guide**

Check point	Instructions	P. Ref
Spark plug	Clean.	33
Air cleaner	Clean.	34
Battery	Check or, if necessary replenish battery fluid.	32
Drive chain	Adjust and oil.	36
Gear oil	Change.	31
Front & rear brakes	Adjust cables	28 · 29
Muffler	Clean.	
Bolts & nuts	Tighten.	38

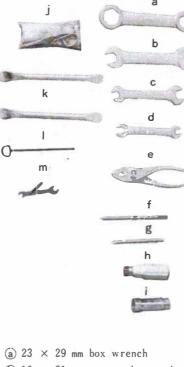
Be sure to go through this inspection before long trips.

- 26 -

15

# 5-3 Service Tools and Their use

5-3-1 Service tools:



(a) 23 × 29 mm box wrench
(b) 19 × 21 mm open-end wrench
(c) 14 × 17 mm open-end wrench
(d) 10 × 12 mm open-end wrench
(e) Pliers
(f) (g) (h) Screw driver set
(j) 21 × 14 mm plug socket
(j) repair set of tube
(k) tire lever
(m) service gauge

- 27 -

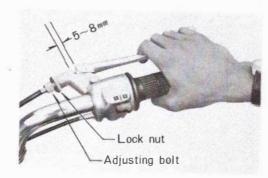
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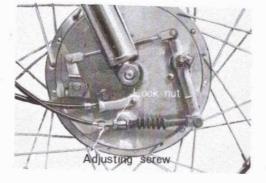
# 5-3-2 Use of Service Tools

Adjusting the brakes

a Front Brake

The correct end play of the brake lever is Adjust this by Adjust turning the adjusting nut at the end of the brake cable half a turn at a time.

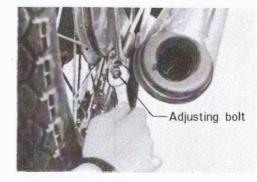




#### b Rear Brake

The correct end play for the brake pedal is 2 to 3 cm (about 1"). Adjust this by turning the adjusting nut at the end of the rear brake cable a half turn at a time. After adjusting the brake, make sure the brake light is working. If not, readjust the stoplight switch.





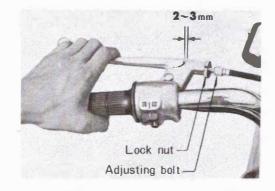
NOTE: Inspect the brake linings for wear and clean the brake shoes and drums every 2,000 miles, Always keep the shoes and drums free of oil.

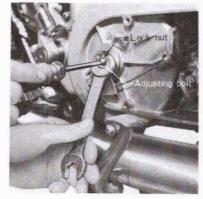
- 29 -

## 2 Adjusting the Clutch

The clutch lever should be adjusted to have end play.

- If there is too much end play, the lever may not disengage the clutch.
- If there is no end play, the clutch will slip.
- a Remove the clutch cover from the left crankcase cover.
- b Loosen the clutch adjusting lock nut with the 14 mm socket and  $19 \times 21$  mm box wrench.
- C Adjust the end play by turning the clutch adjusting screw with a screwdriver. To reduce end play, turn the adjusting screw clockwise. To increase end play turn the adjusting screw counterclockwise.
- d After adjusting the clutch, tighten the lock nut securely.





- 30 --

## 3 Gearbox Oil

Be sure to change the gearbox oil at 300, 1,000 and 3,000 miles and every 2,000 miles thereafter. Use SAE 30 MS or SAE 10-20-30 MS oils.

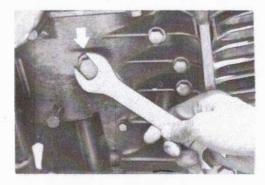
## a Draining the Gearbox

To drain the oil, remove two oil drain plugs on the bottom of the engine and in the left crankcase cover.



# b Refilling the Gearbox

After draining, tighten the drain plugs securely. Remove the oil filler cap near the left air cleaner and pour in 1.1 quarts of oil.



## 4 Battery

The battery fluid should always be kept between the upper and lower level lines. If it is below the lower one, fill it with distilled water up to the upper one.



Check to see that the overflow tube is not clogged.

If your motorcycle will not be in use for more than a month, remove the battery and keep it in a dry cool place, or give it to your dealer to keep for you. Be sure to have your dealer charge it once a month.

- 32 -

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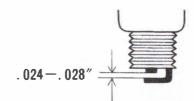


#### 5 Spark Plugs

A spark plug ignites the fuel-air mixture in the cylinder. Carboned or oiled plugs cause hard starting, misfiring and other problems. Remove carbon from the electrodes with a wire brush foom time to time.

- a Spark Plug Gap: The correct gap is .024-.028".
- b Heat Range: The standard plug is an NGK 8HC.

The spark plug will be covered with carbon if it is too cool for operating conditions. If the plug is correct, the insulator will be relatively clean and have a tan color. If the standard plug is too cool, use an NGK B7HZ.





#### 6 Air Cleaner

An air cleaner excludes dust and dirt from the engine. It must be clean at all times. If you drive often on dirt roads, be sure to clean it at least once a month.

- a Remove the left side cover and then the air cleaner cover set screw.
- b Open the air cleaner case lid with thum and pull out 2 pcs. of cleaner element.





#### Cleaning

The air cleaner is a paper filter. Wash the filter in clean gasoline. Blow compressed air through it from the inside. Never wash the filter in water or oil. Use clean gasoline.



# 7 Adjusting the Carburetor

If the standard carburctor settings, which were done under rigid test conditions, are changed, it may result in poor performance. Adjust the carburetor as follows:

- a Idle
  - 1. Tighten the right and left pilot air screws (1) all the way, then loosen them  $1\frac{14}{4}$  turns.
  - With the engine running, turn the throttle adjusting screw (2). Adjust it to a position where the engine runs smoothly at low rpm.

NOTE: To decrease rpm, turn the screw clockwise.

To increase rpm, turn the screw counterclockwise. 3. The amount of exhaust from each muffler should be the same. NOTE: The proper idle speed is between 1,200 and 1,500 rpm.



## b Throttles

The right and left throttle slides should move simultaneously when the throttle is turned.

- 1. Turn the throttle wide open.
- Loosen the cable adjuster locknut (3). Then turn the cable adjuster (4) just until there is no play.

- 35 -

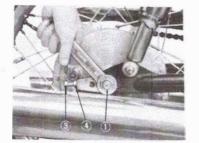
3. After adjusting, tighten the locknut.

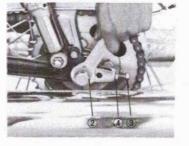
# 8 Drive Chain

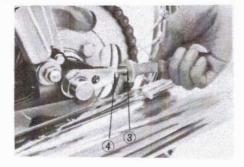
The drive chain should have  $\frac{1}{2}'' - \frac{5}{8}''(20 \text{ mm})$  of up and down play measured at the center of the lower section of the chain wheel on the ground. A dirty or dry chain will wear rapidly and damage the sprockets. Check the chain regulary to make sure that it is properly oiled and adjusted. It is wise to wash the chain off with gasoline before reoiling it.

# Adjusting

- a Loosen the rear wheel nuts, (1)and(2), on either side of the wheel.
- b Adjust the chain by turning the chain adjusting nuts (3). The adjusting marks on each side should be in the same position.
- c When the chain is adjusted properly, tighten all the nuts (1), (2) and (3).







# 9 Cleaning the Muffler

To remove the inner cylinder from the muffler, remove the cylinder set screw and pull the cylinder out with pliers. Remove the carbon with a wire brush.



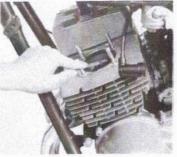


10 Cleaning the Cylinder Head and Piston

Carbon accumulation around the cylinder head and piston causes poor perfomance loss of power, overheating, piston slap and other problems.

- a Remove the cylinder head, and remove all carbon from the combustion chamber.
- b Remove all carbon from the piston crown.
- NOTE: Use a wire brush or screwdriver being careful not to mark the aluminum. Clean the surfaces with gasoline.





- 37 -

# 11 Cleaning the Fuel Cock Filter

The fuel cock filter removes impurities from the gasoline before it reaches the carburetors. A clogge filter will keep from fuel reaching the carbs. The filter must be cleaned from time to time. Remove the cup from the fuel cock and then the filter. Wash it carefully in gasoline.



12 Nuts and Bolts

Go over your machine periodically checking to see that all hardware is secure. In particular check the following items.

Front & rear axles	Engine fittings
Foot rests	Carburetor
Swinging arm shaft	Air clener cover
Muffler	Brake linkage
Center stand	Exhaust ring nut
Side stand	Rear shock absorbers

#### 13 Greasing and oiling

	Parts to be lubricated	Distance of driving at lst lubr., miles	Lubrication interval, miles	Type of Lubricant
1	Front brake cam shaft	600	2,000	cup grease
2	Rear brake cam shaft	600	2,000	4
3	Front brake wire	600	2,000	"
4	Rear brake wire	600	2,000	4
5	Accelerator grip	600	2.000	4
6	Stand shaft	600	2,000	4
7	Brake linkage	600	2,000	4
8	Drive chain	300	600	motor oil
9	Gear oil	300	600	
10	Swinging arm shaft	600	2,000	cup grease

# **6 Repair and Troubleshooting Charts**

# **6-1 Factory Authorized Service**

Your Yamaha dealer is a factory trained mechanic who guarantees thorough and correct maintenance for your motorcycle. We recommend that you let your dealer make all repairs and adjustments on your motorcycle. You will be assured prompt and good service.

# 6-2 Genuine Yamaha Parts

Always use genuine Yamaha parts and not "substitute" brands. Yamaha parts are manufactured to meet the factory's exacting standards of precision and quality.

- 39 -

- 38 -

# 6-3 If Something Should Go Wrong.....

The YR1 undergoes rigid factory tests to assure you long and satisfactory performance. However, if something would go wrong with your machine, immediately ask your Yamaha dealer for advice. He is always glad to answer your questions.

IMPORTANT: Some components are sealed or cannot be disassembled. If repairs to such components are necessary go to your Yamaha deale Yamaha cannot be responsible for repairs and adjustments to such components.

NOTE: The inspection and maintenance of Auto Lube are the dealer's job.

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# **6-4 Troubleshooting charts**

Engine does not start.

a Main switch key is in "I (DAY DRIVING)" position but charge lamp (red)does not light.

1 Disonnected battery cable	Check battery terminals under left side cover. Tighten up-loose screws.
2 Burnt-out fuse	Replace. Have your dealer inspect.
3 Dead battery	Try push starting. See Section 4-3-5. Have your dealer inspect.

b Battery is good but engine does not start.

L	a Empty gasoline tank b Closed fuel cock	Refill Open.
	Incorrect usage of starter lever.	See Section 4-3-1.
3	Dirty or worn spark plug	If plug soots up with carbon, clean and blow dry, or replace.
1	There are sparks, but engine does not start.	Incorrect plug gap. See page 33.
5	No spark (To see if there is no spark, remove plug with high-tension lead in place; ground it to cy- linder head, and then kick down crank pedal).	Replace. If plug is not defective, either ignition coil or point breaker is faulty. Have your dealer repair.
6	Fuel in carburetor is overflow- ing.	Inspect carburetor for overflow- ing. Have your dealer disassemble and clean.

- 41 --

# 2 Engine overheats and speed is slow

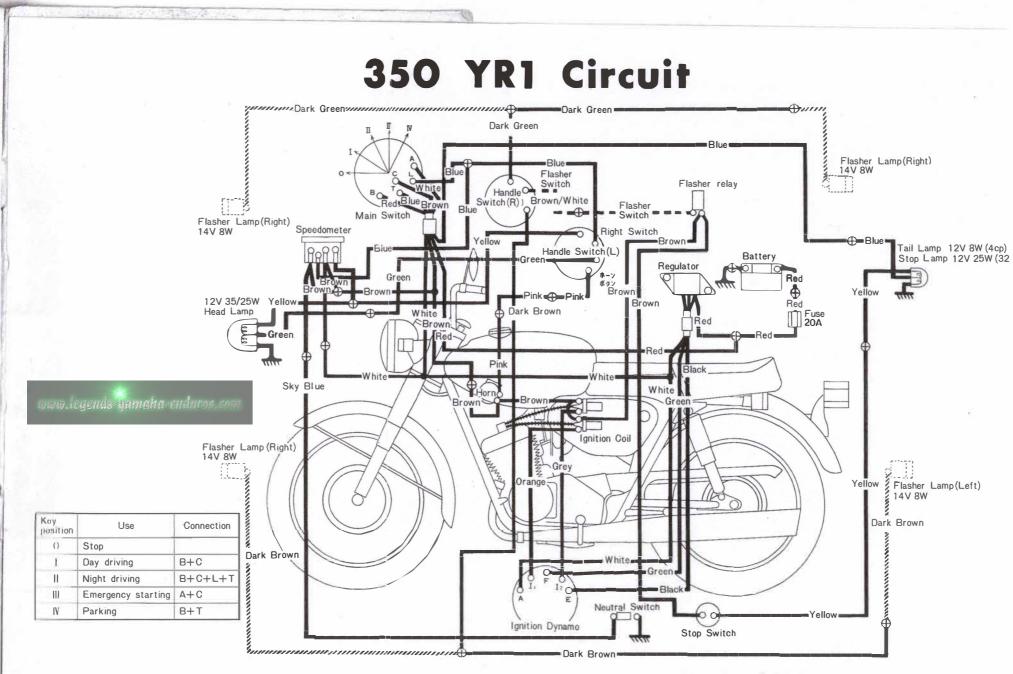
I	Improper ignition timing	Have your dealer inspect.
2	Clogged bypass in carburetor	Have your dealer clean.
}	Loose carburetor fitting	Tighten
	and/or cylinder head	
ŀ	Dirty or clogged air cleaner	Clean.
	Lack of oil in drive chain	Apply oil.
	Carbon coated muffler	Clean. (See p. 37)

If any troubles should occur. please consult with your Yamaha dealer. He is always glad to answer your questions.

- 42 --



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