



# YAMAHA

# IT 400C

## ASSEMBLY MANUAL



90894-0754

## IMPORTANT NOTICE

This motor cycle may be equipped for general off road use. It may be illegal to operate this vehicle off-road when it is equipped for competition use.

Check your state and local riding area regulations. This vehicle is not manufactured for use on public streets, roads or high ways. Such use is prohibited by law. An off-road riding kit is provided with each vehicle to comply with noise level and spark arrester laws and regulations for installation instructions see directions in this manual.

Performance will be substantially decreased. Retuning is not required.

## NOTICE

The service specifications given in this Assembly Manual are based on the model as manufactured. When this model may require improvements, the service specifications may be subject to change in the future. If any change is introduced into the specifications or service procedures, Yamaha dealers will be notified through technical service information to be published by Yamaha. The assembly procedure is described in the order that the mechanic should follow, and the correct service tools should be used in the correct manner. Failure to do this may result in poor performance and danger to the rider.

YAMAHA IT400C  
ASSEMBLY MANUAL  
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OVERSEAS SERVICE DEPT.  
YAMAHA MOTOR CO., LTD.  
IWATA, JAPAN  
LIT-11666-00-27

# CONTENTS

PREPARATION .....	1
Tools for unpacking .....	1
Tools for assembling .....	1
Supplies .....	2
Workshop .....	2
UNPACKING .....	2
Notes on transportation .....	2
Procedure for unpacking .....	2
PARTS CHECK LIST .....	3
INSTALLATION GUIDE .....	5
SET-UP PROCEDURES .....	6
INSPECTIONS AND ADJUSTMENTS .....	13
Inspections .....	13
Adjustments .....	14
HOW TO INSTALL THE OFF-ROAD RIDING KIT .....	15
MISCELLANEOUS .....	16

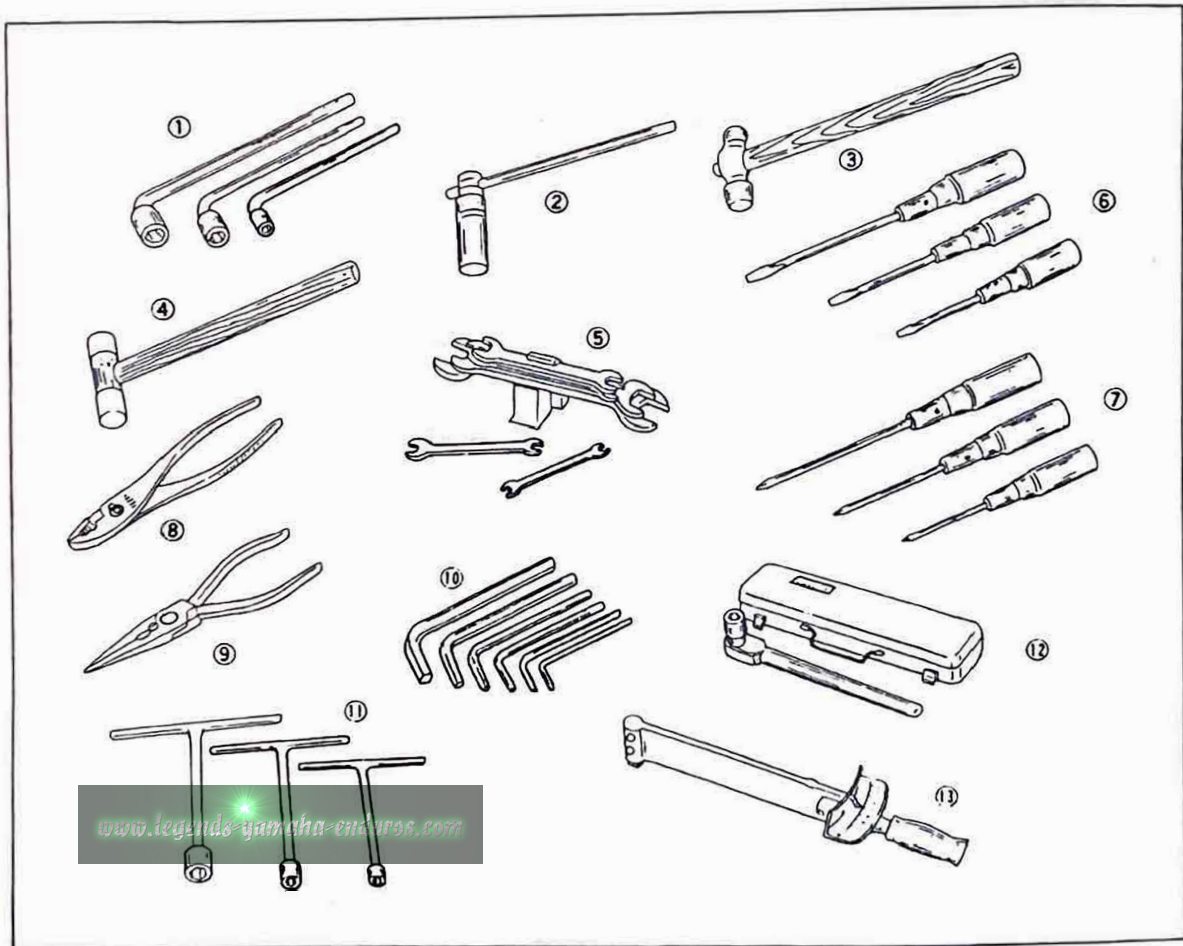
## PREPARATION

To assemble the machine correctly, the following service tools, supplies and working space are required:

### Tools for unpacking

1. Nail puller
2. Pliers
3. Steel hammer
4. Scissors
5. Wire cutter

### Tools for assembling



1. L-handle socket wrench
2. Spark plug wrench
3. Steel hammer
4. Soft-faced hammer
5. Wrench set
6. Slotted-head screwdrivers (Large, medium and small)
7. Phillips-head screwdrivers (Large, medium and small)
8. Pliers
9. Long nose pliers
10. Allen wrench set
11. T-handle socket wrench
12. Socket wrench set
13. Torque wrench

## Special tools

1. Dial gauge
2. Dial gauge holder

## Supplies

Oils, greases, shop rags, electrical contact cleaner.

## Workshop

The workshop where the machine is assembled should be clean and large. The floor should be level.

# UNPACKING

### Note on transportation

Use care not to butt the machine packed in the crate against a hard object or give it a heavy shock during transportation or in the service shop.

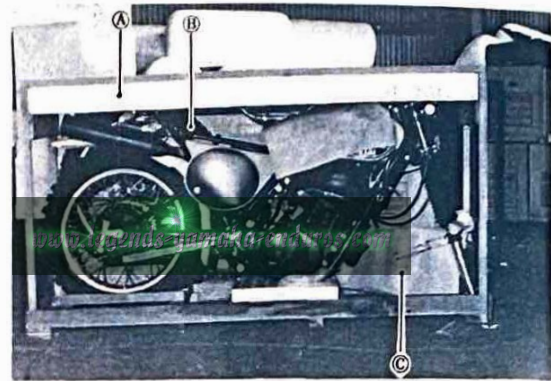
### Procedure for unpacking

To remove the machine and parts packed in the cardboard crate, cut the vinyl bands around the box using a cutter or scissors. Next, remove the exterior carton by lifting it straight up.



Remove foam tray, front wheel and seat.  
Pull out nails from wood frame corners and remove the supports.

Remove the front fender held between the rear tire and the rear fender.



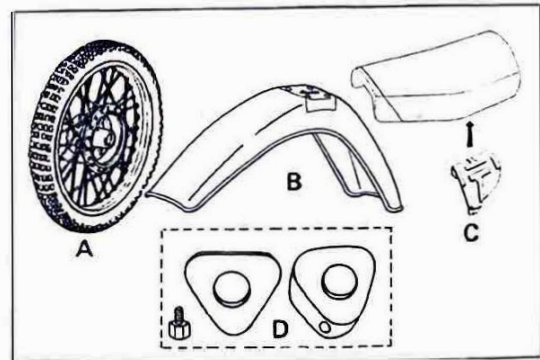
A. Foam styrol case  
B. Front wheel  
C. Seat

## PARTS CHECK LIST

Before starting the assembly, check for damaged or missing (listed below). Also check the machine for damage, scratches and other defects.

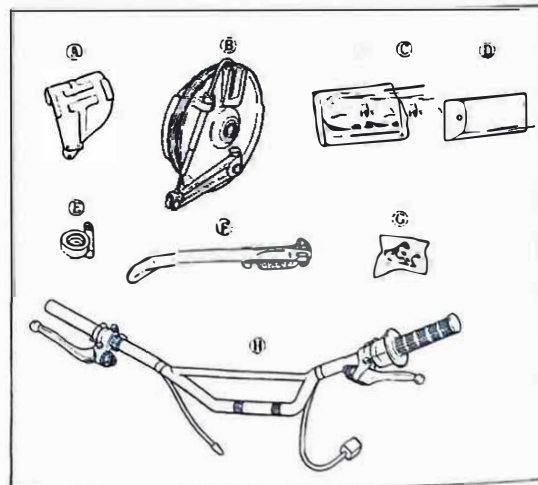
Check parts in card board crate

No.	Q'ty	Parts name
A	1	Front wheel
B	1	Front fender
C	1	Seat
D	1	Silencer cap and silencer plate KIT PARTS



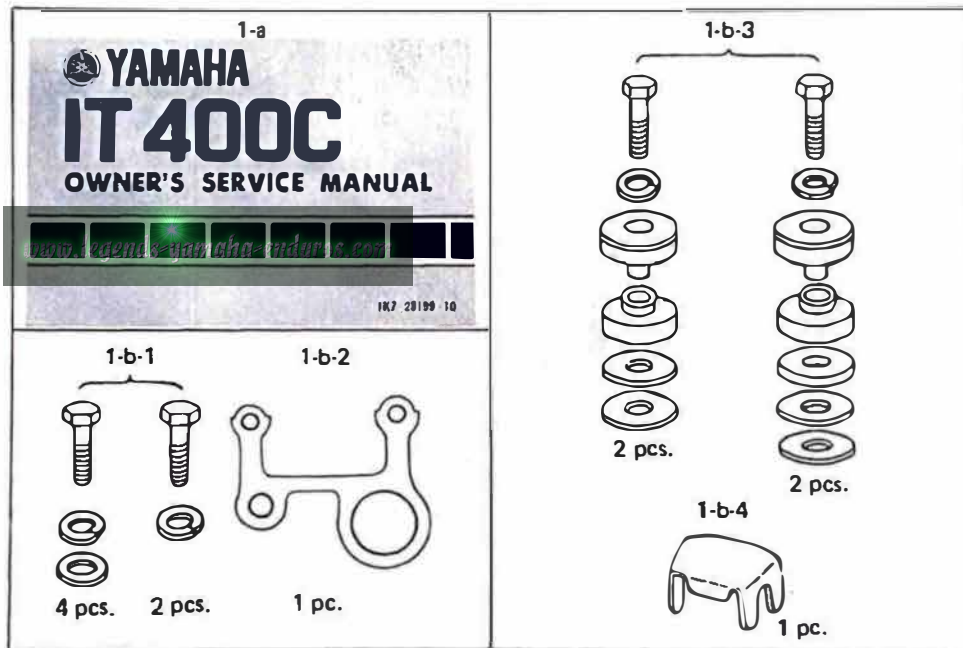
Check parts on foam styrol

No.	Q'ty	Parts name
A	1	Seat bracket
B	1	Brake shoe plate assembly
C	1	Vinyl bag (1)
D	1	Tool bag
E	1	Speedometer gear unit
F	1	Side stand assembly
G	1	Vinyl bag (2)
H	1	Handle bar assembly



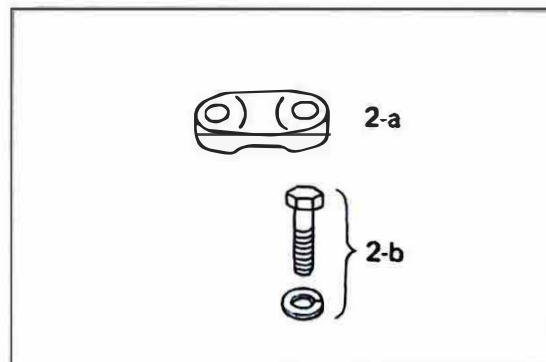
Details of parts in vinyl bag (1)

No.	Q'ty	Parts name	Remarks	
1-a	1	Owner's service manual		
1-b	1	Vinyl bag	1-b-1	Seat and seat bracket
			1-b-2	Wire holder upper
			1-b-3	Front fender
			1-b-4	Wire holder lower



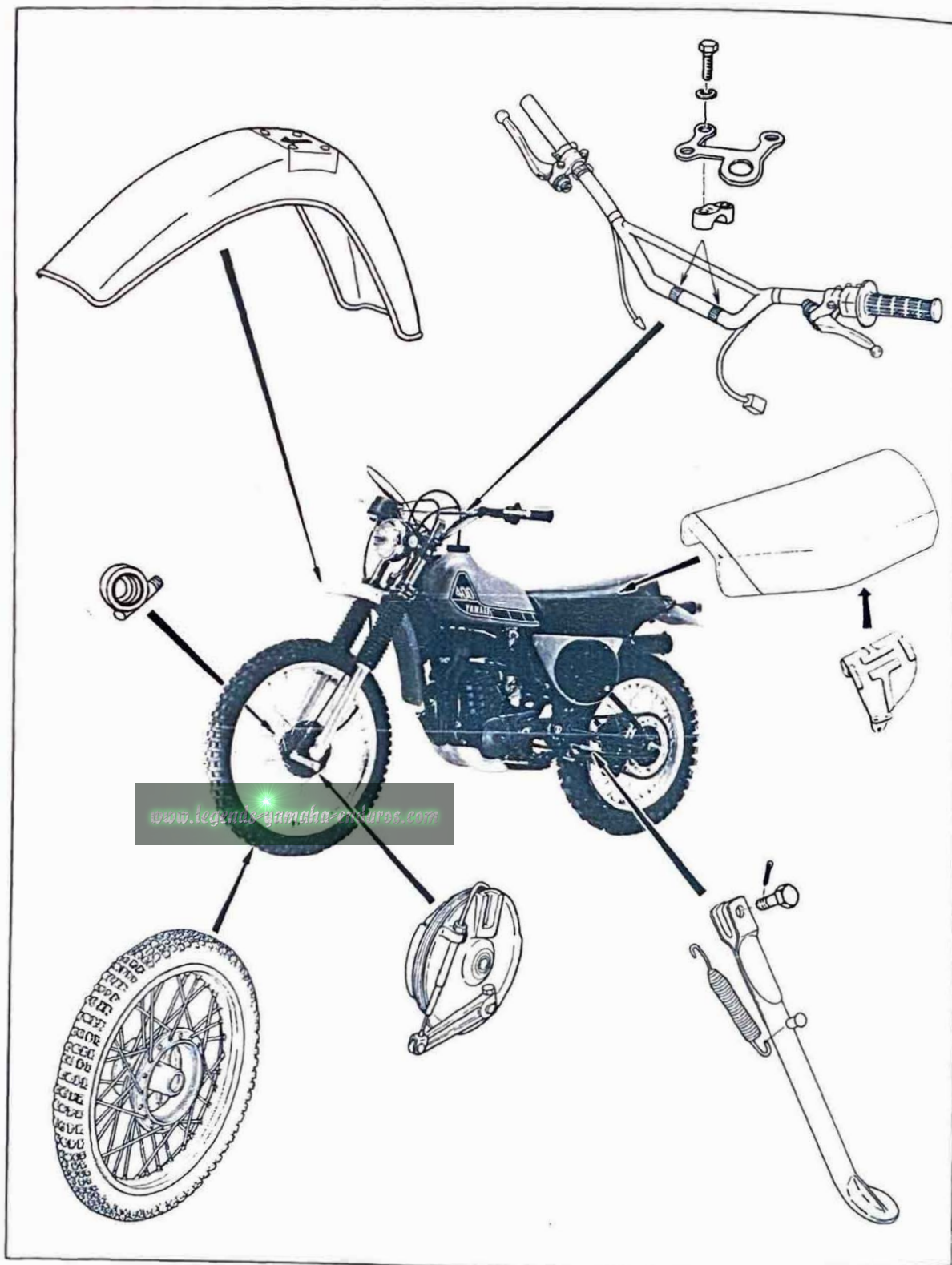
Details of parts in vinyl bag 2

No.	Q'ty	Parts name	Remarks
2-a	2	Handle holder	Handlebar
2-b	4	Bolt with washer	



# INSTALLATION GUIDE

The removed parts should be installed in the positions indicated in the chart below:





## SET-UP PROCEDURES

Lift up the machine. And take out the rear wheel from the lower wooden case.

To install the front fender and front wheel, place a proper-size wooden box or a wooden block under the engine to keep the front of the machine raised off the floor. Take care so that the machine does not fall over.



Insert the front fender between the front fork legs, and secure the fender using the specified number of bolts with spring washers, plate washers, fender dampers, fender collars and special washers.

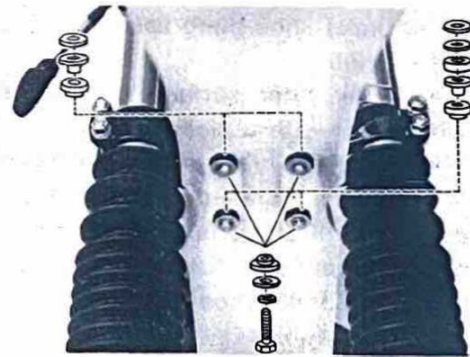
Bolt with spring washer: 6 mm x 4 pcs.

Plate washer: 6 mm x 4 pcs.

Fender damper: 8 pcs.

Fender collar: 4 pcs.

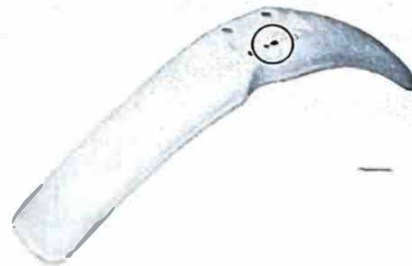
Special washer: 2 pcs. (Rear side)



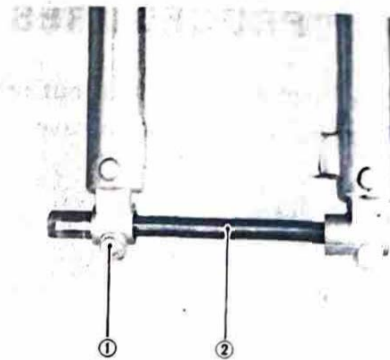
**NOTE:** \_\_\_\_\_

The front fender should be installed with the arrow mark in the left facing forward.

\_\_\_\_\_



Loosen the axle pinch bolt, and unscrew the wheel axle. Pull out the wheel axle.



1. Axle pinch bolt
2. Wheel axle

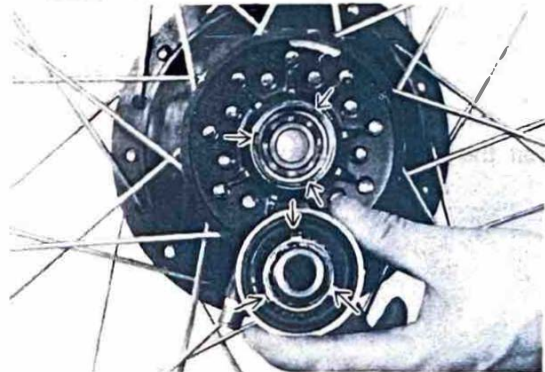
Install the meter gear unit in the wheel hub on the right side of the front wheel.

**NOTE:** \_\_\_\_\_

To avoid damaging the oil seal lip, apply a light coat of lithium base grease to the oil seal lip and gear unit.

**NOTE:** \_\_\_\_\_

Make sure the three legs in the wheel hub align with the three slots in the speedometer clutch assembly.



Install the brake shoe plate assembly in the front wheel hub.

1. Clean the inner surface of the front wheel hub with a clean cloth.
2. Make sure the brake shoes and springs are correctly installed in the shoe plate assembly. If any one of them is out of place, correct per the figure.
3. Install the brake shoe plate assembly in the wheel hub.



Install the front wheel on the front forks.

1. Insert the front wheel between the front fork legs so that the stopper (projection) on the front fork end is correctly engaged the slot in the brake shoe plate.
2. Insert the axle.



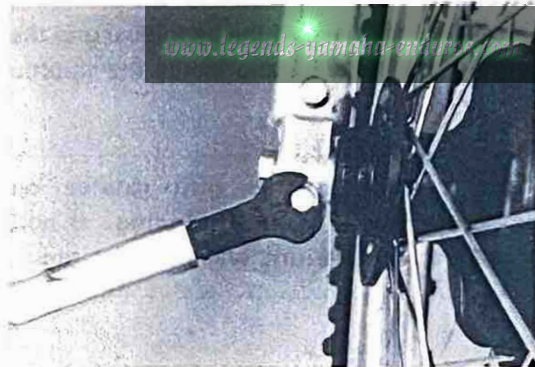
3. Tighten the wheel axle with specified torque.

Tightening torque:  
4.5 ~ 7.1 m·kg (32.5 ~ 51.3 ft·lb)



4. Tighten the wheel axle pinch bolt with specified torque.

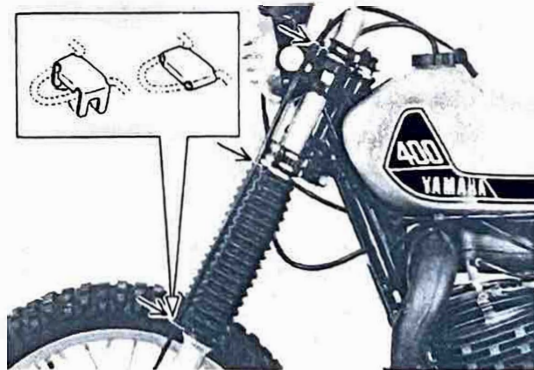
Tightening torque:  
0.8 ~ 1.1 m·kg (5.8 ~ 8.0 ft·lb)



Install the speedometer and front brake cables to the front wheel hub.

- a) Connect the speedometer cable to the front wheel hub gear unit. Insert the cable end into the gear unit.

Pass front brake cable and meter cable through three wire holders and a guide as illustrated.



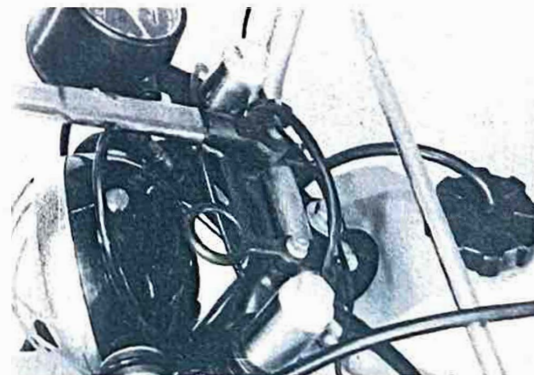
#### Handlebar installation

Install the handlebar using the two upper holders and four hexagon bolts.

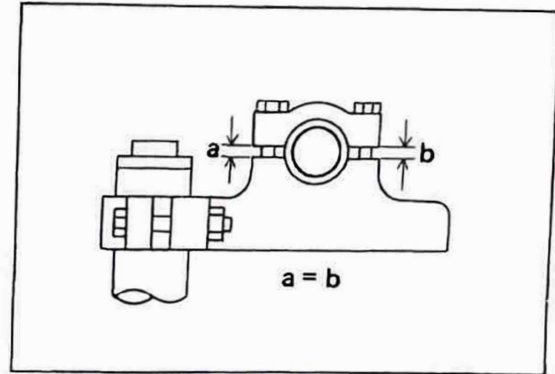
**NOTE:**

Fasten wire guide plate together.

Tightening torque:  
1.1 ~ 1.8 m·kg (8.0 ~ 13.0 ft·lb)



**CAUTION:**  
Tighten bolts in stages and maintain an equal gap on each side of both holders.



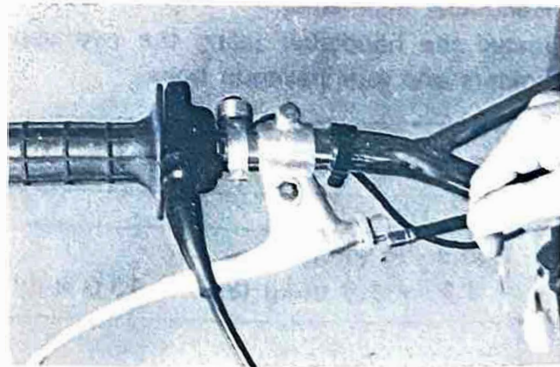
Grease the right end of the handlebar and the throttle grip housing, and install the throttle grip.

**CAUTION:**  
Make certain throttle grip rotates on handlebar freely, without binding. If not, normal throttle return will be impaired.



#### Brake wire and clutch wire installation

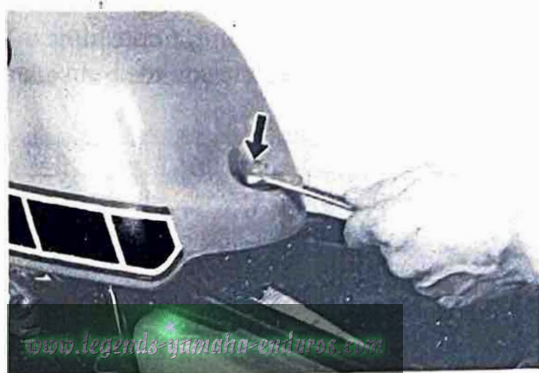
1. Fully loosen the lever adjuster lock nut, and screw in the adjuster until tight. Next, align the slit in the adjuster and adjuster lock nut with the slit in the lever holder.
2. Insert the wire end into the lever hole, and hook the outer cable end onto the adjuster lock nut, then squeeze the lever.



Next, while pulling the outer cable in the direction opposite to the lever, release the lever quickly. While releasing it, seat the outer cable into the adjuster.

**CAUTION:** \_\_\_\_\_

Proper cable and wire routing is essential to insure safe vehicle operation. For details of the cable routing, refer to the "CABLE ROUTING DIAGRAM".

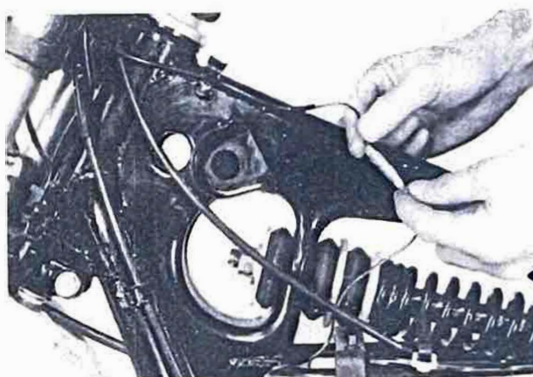


**Engine stop switch**

1. Remove the bolt securing the tank. Remove tank.
2. Connect the engine stop switch cord wire (Black) to the lead wire of C.D.I. unit (Black/white), and clamp the wire connection.
3. Reinstall the fuel tank.

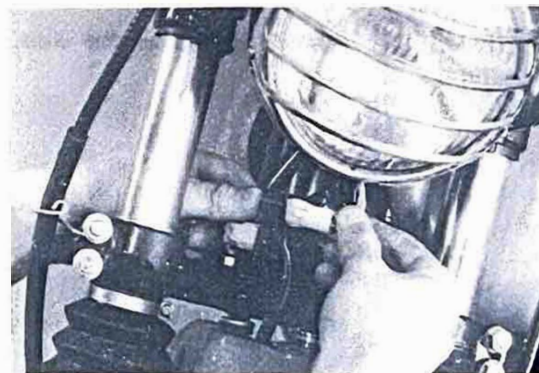
**NOTE:** \_\_\_\_\_

For detailed cable routing, refer to "CABLE ROUTING DIAGRAM"



**Handle switch (L.H.)**

Connect the lead wires coming from the left side handle switch to the coupler on the under bracket.



**Semi double seat**

1. Install the seat bracket to the seat.



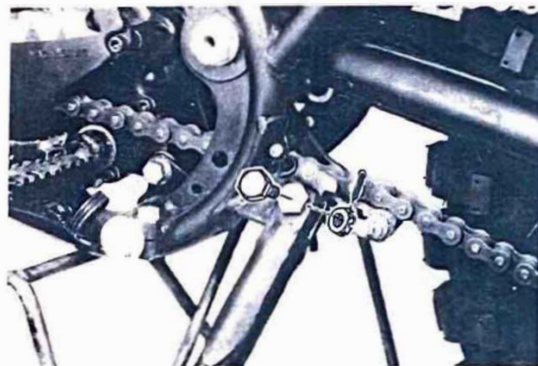
2. Tighten the seat securing bolt after inserting a rear flap to inside the both seat rail.

Tightening torque:  
0.4 ~ 0.6 m·kg (2.89 ~ 4.34 ft·lb)

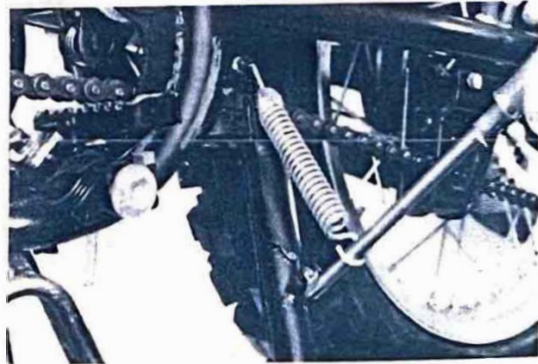


#### Side stand

1. Insert the side stand to the frame bracket. And tighten the bolt.
2. Insert the cotter pin downward, and pin ends should be bent.



3. Install the tension spring on the side stand.



Connect one end of the air breather pipe to the fuel tank filler cap, and insert the other end into the wire guide.



Cover the brake and clutch lever holders with holder covers.



# INSPECTIONS AND ADJUSTMENTS

## Inspection

After all packed parts are installed, check to see that all these parts and other parts (mounted or installed at the Yamaha factory) are correctly mounted or installed, or tightened to specification. This check-up should be started with the front of the machine.

### Item

Front wheel spokes	Tension	Brake pedal	Position, looseness, operation
Front wheel rim	Hopping, deflection	Seat	Mounting, clevis pin, clips
Front wheel tire	Tire pressure	Fuel tank	Mounting
Front wheel axle pinch bolt	Tightening torque	Fuel pipe	Connection
Steering head lock bolt	Tightening torque	Rear fender	Mounting
Front fork pinch bolts	Tightening torque	Rear shock absorber	Mounting
Handlebar holder	Tightening torque	Rear swing arm pivot shaft	Tightening torque
Clutch lever holder	Tightening torque	Rear axle nut	Cotter pin, tightening torque
Brake lever holder	Tightening torque	Chain puller	Lock nut
Throttle housing	Position, operation, tightness	Rear wheel	Spoke tension
Engine mounting bolt	Tightening torque	Rear wheel rim	Hopping, deflection
Carburetor joint	Tightness	Rear wheel tire	Tire pressure
Footrests	Position, tightening torque	Transmission	Oil level
Change pedal	Position, looseness, operation		



## Adjustments

### NOTE:

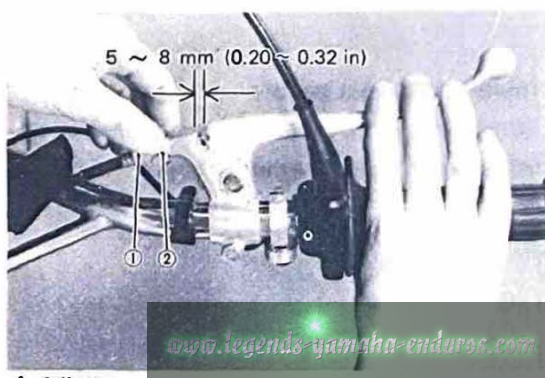
This section deals with the main points only. For details, refer to the DT250B/400B service manual.

#### Front brake wire adjustment

Loosen the brake wire adjuster lock nut, and adjust the play of the brake lever (at the position illustrated) to specification. After the adjustment, be sure to screw in the lock nut until tight.

Standard value:

5 ~ 8 mm (0.20 ~ 0.32 in)



1. Adjuster
2. Lock nut

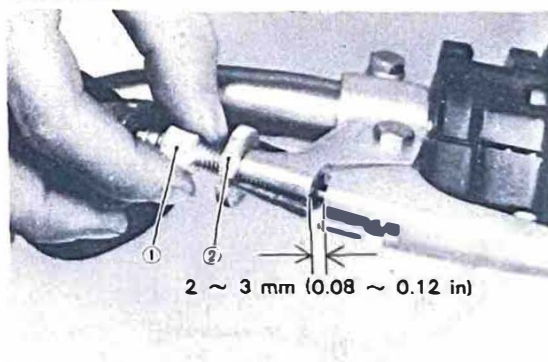
#### Clutch wire adjustment

Loosen the clutch wire adjuster lock nut at the clutch lever, and adjust the clutch wire by turning the wire adjuster.

Turning the adjuster clockwise (the adjuster is tightened) increases clutch wire play, while turning counterclockwise decreases the play.

Standard value:

2 ~ 3 mm (0.08 ~ 0.12 in)



1. Adjuster
2. Lock nut

# HOW TO INSTALL THE OFF-ROAD RIDING KIT

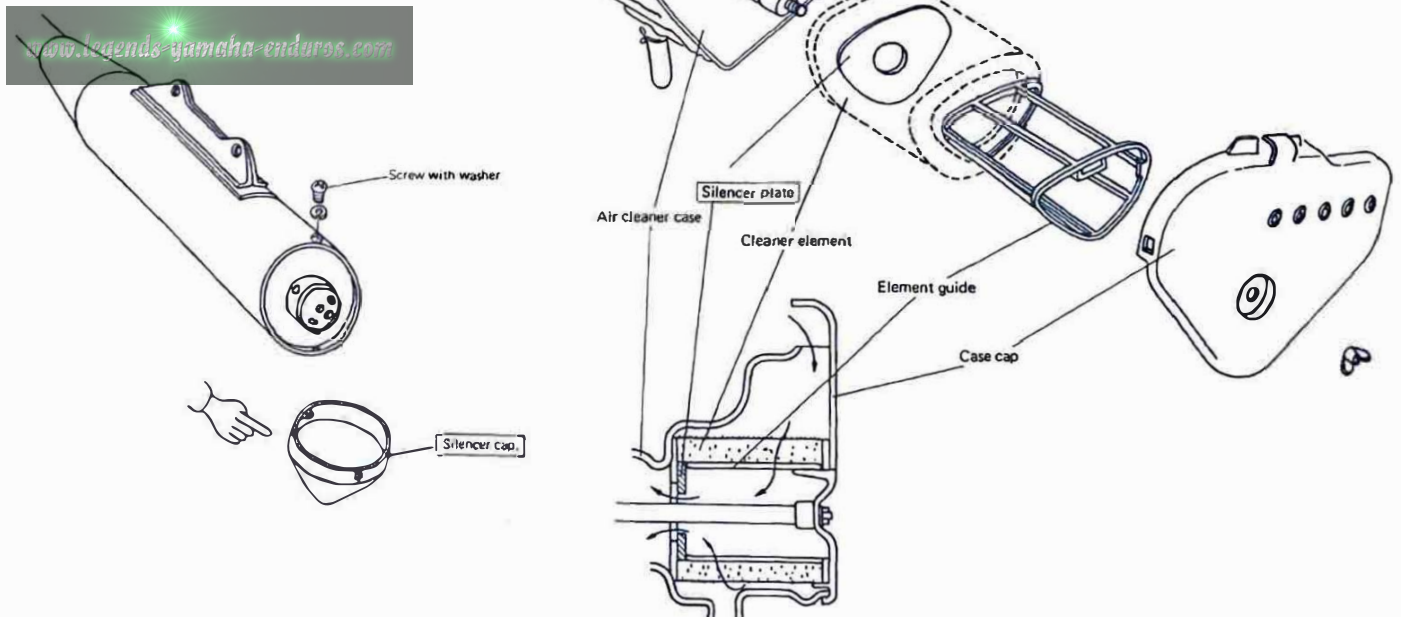
An off-road riding kit is provided with each vehicle to comply with noise level and spark arrester laws and regulations. Performance will be substantially decreased. Retuning is not required.

## Description of the kit

1.	Spark arrester - silencer cap	1 pc.
2.	Main jet	1 pc. (# 190)
3.	Silencer plate	2 pcs. (L and R)
4.	Warning ravel	1 pc.

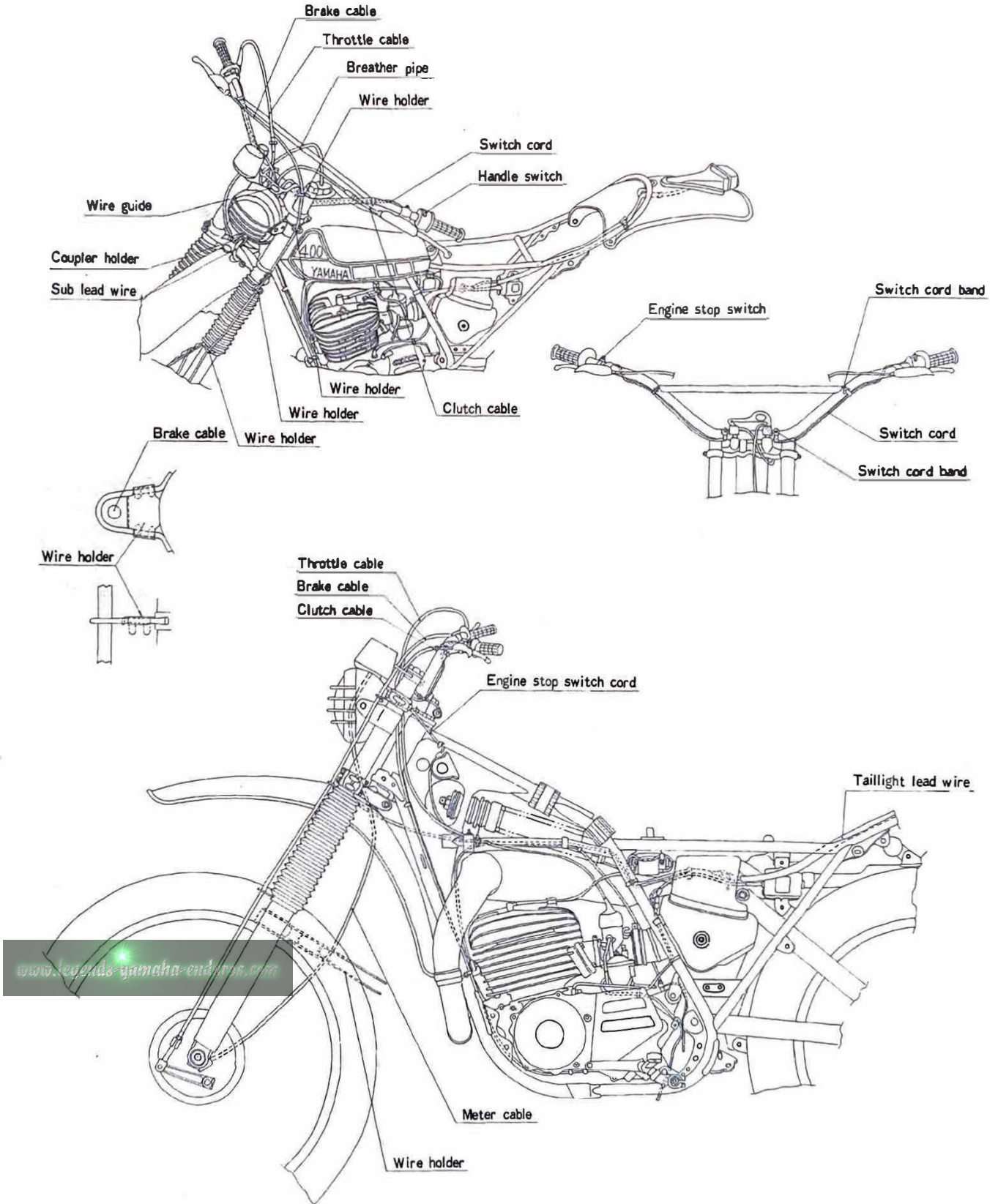
## Installing the kit parts

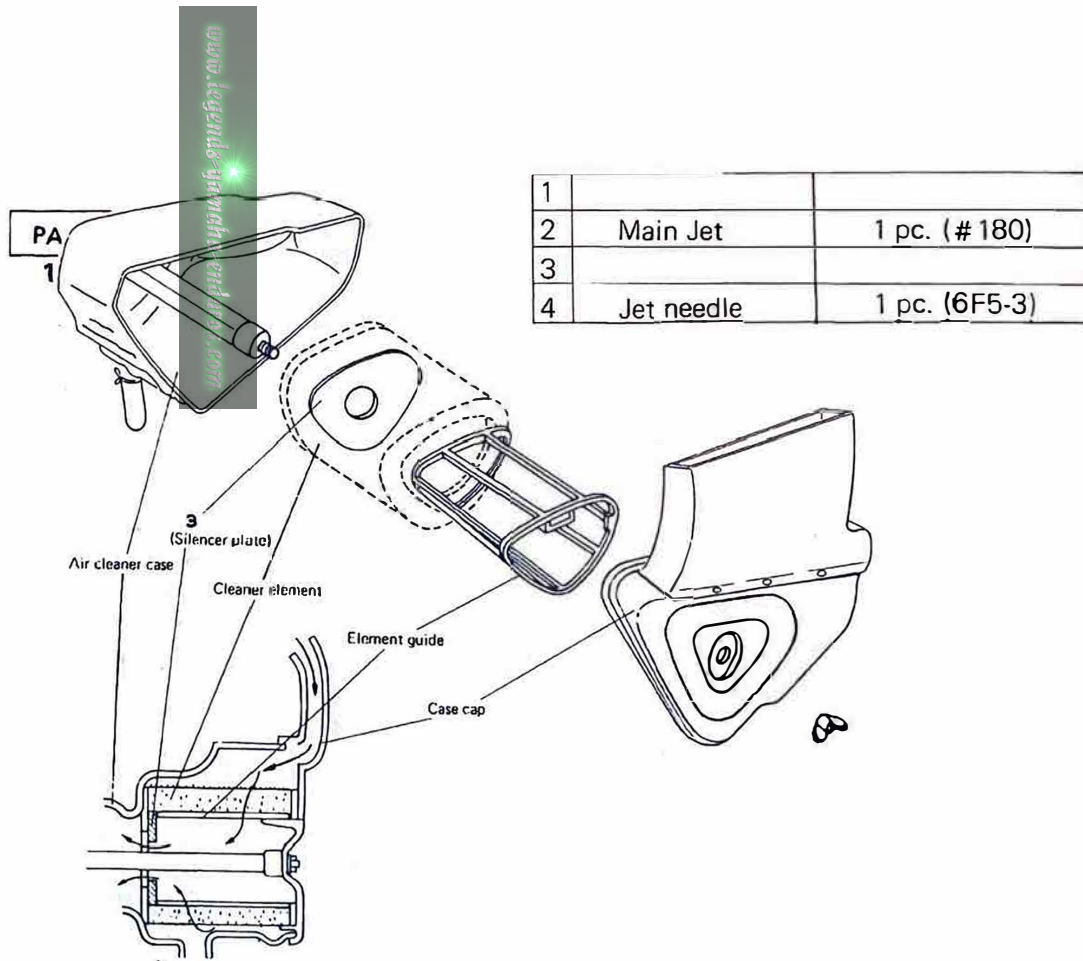
When installing those kit parts, please refer to below illustration. For main jet installation, refer to YZ400C Owner's Service Manual page 49 - 50.



# MISCELLANEOUS

## Cable routing diagram





[www.legends-yamaha-enduros.com](http://www.legends-yamaha-enduros.com)



SINCE 1887

**YAMAHA MOTOR CO., LTD.**

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