



YAMAHA

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YZ 125D

ASSEMBLY MANUAL



90894-07622

FOREWORD

This Assembly Manual contains the information required for the unpacking and assembly of Yamaha motorcycles so that the Yamaha serviceman can assemble the machines in the correct manner. To perform machine assembly, a basic knowledge of service and Yamaha machines is required. Therefore, all Yamaha dealers are urged to study the service of Yamaha motorcycles using the relevant service manuals. This Assembly Manual should be used in conjunction with the Service manual and Parts List for this model.

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. Modifications are inevitable and significant changes in specifications or procedures will be forwarded to Authorized Yamaha dealers. 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 harm to the rider.

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

NOTE: A NOTE provides key information to make procedures easier or clearer.

CAUTION: A CAUTION indicates special procedures that must be followed to avoid damage to the machine.

WARNING: A WARNING indicates special procedures that must be followed to avoid injury to a machine operator or person inspecting or repairing the machine.

YAMAHA YZ125D
ASSEMBLY MANUAL
1st EDITION, NOVEMBER 1976
OVERSEAS SERVICE DEPARTMENT
YAMAHA MOTOR CO., LTD.
IWATA, JAPAN
LIT-11666-00-44

PREPARATION

To assemble the machine correctly, the following supplies and working space are required.

Supplies

Oils, greases, shop rags, electrical contact cleaner, solvent for cleaning.

Workshop

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

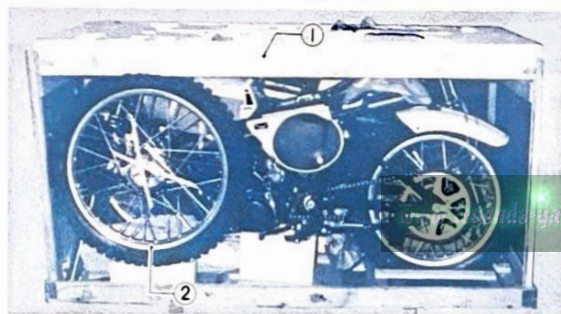
UNPACKING

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 scissors. Next, remove the exterior carton by lifting it straight up and remove the foam tray, front wheel.

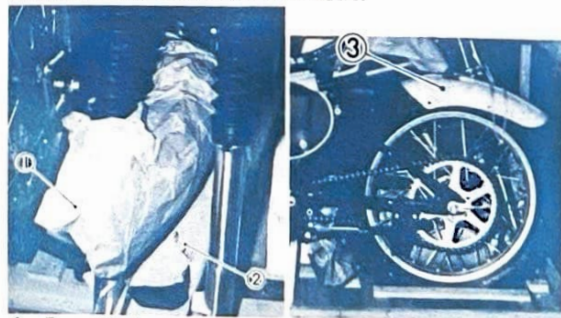


1. Foam tray 2. Front wheel

Remove the nails from each corner of the crate, and remove the struts.

Remove the front and rear fenders.

Remove the semi double seat.



1. Front fender
2. Semi double seat
3. Rear fender

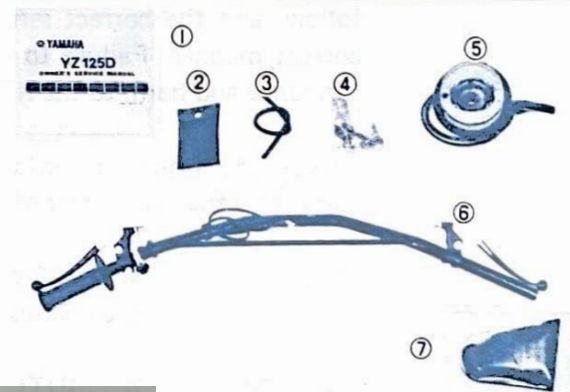
Lift up the machine, and remove the rear wheel section from the lower wooden case. Then take out the machine.

PARTS CHECK LIST

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

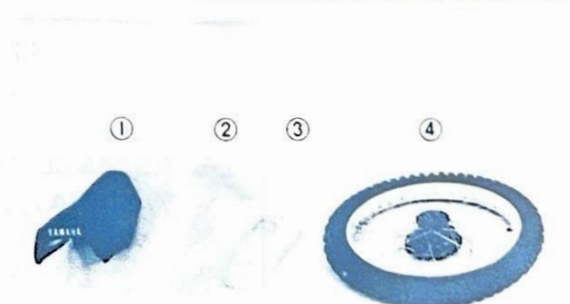
Parts List: Foam tray

No.	Part name	Q'ty
1	Owner's manual	1
2	Tool kit	1
3	Tank breather hose	1
4	Vinyl bags	1
5	Brake shoe plate with brake wire	1
6	Handlebar assembly	1
7	Air check gauge	1



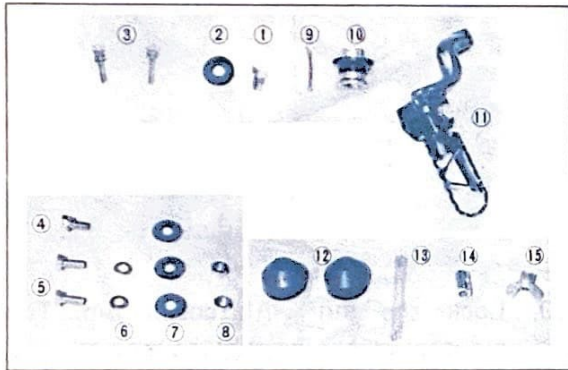
Parts List: Carton box

No.	Part name	Q'ty
1	Semi double seat	1
2	Front fender	1
3	Rear fender	1
4	Front wheel assembly	1



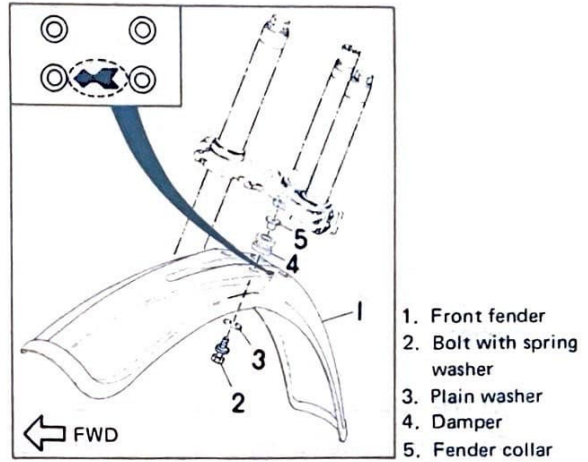
Parts list: Vinyl bags

No.	Part name	Q'ty	Remarks
1	Hexagon bolt	1	Foot rest
2	Plate washer	1	
3	Hexagon bolt with washers	2	Seat
4	Hexagon bolt with washer	1	Rear fender
5	Hexagon bolt	2	
6	Spring washer	2	
7	Plate washer	3	
8	Nut	2	
9	Cotter pin	1	Front wheel
10	Hub dust cover with collar	1	
11	Foot rest	1	—
12	Rubber cap	2	Front fork
13	Spring	1	Rear brake
14	Pin	1	
15	Wing nut	1	

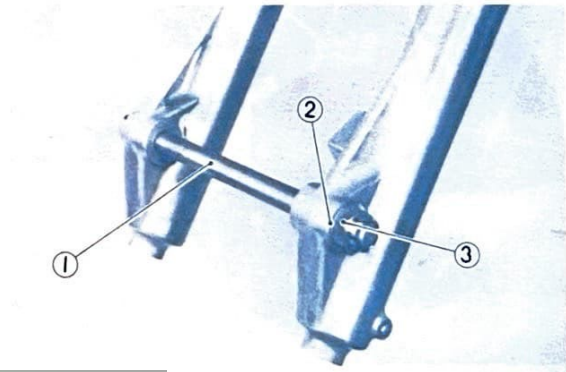


NOTE:

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



3. Remove the front wheel axle nut and plain washer. Then remove the wheel axle.



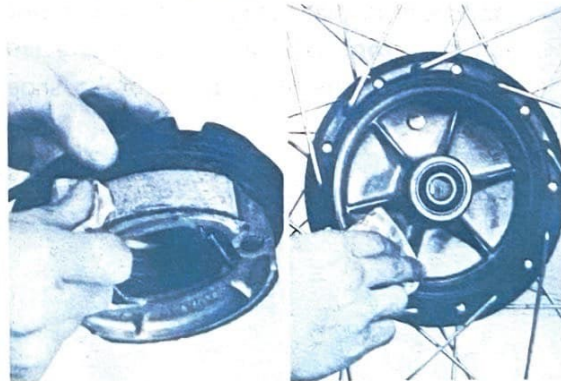
1. Wheel axle 2. Plain washer 3. Axle nut

SET-UP PROCEDURES

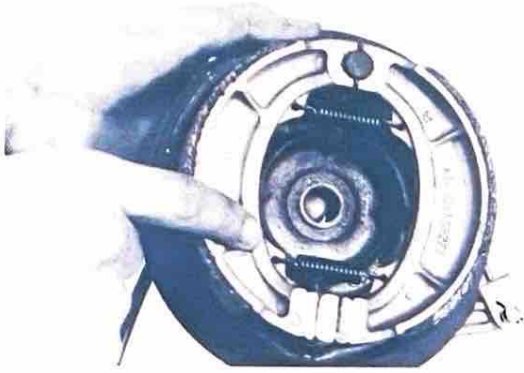
1. To set up the machine, place a proper-size wooden box under the engine to keep the front of the machine raised off the floor. Take care so that the machine does not fall over.
2. Remove the washers, collars and dampers from the under bracket. Next, insert the front fender between the front fork legs, and secure the fender using the bolts, spring washers, plain washers, fender dampers and collars.

Tightening torque:
0.55 m·kg (3.6 ft·lb)

4. Clean the brake shoe linings and wheel hub with a clean cloth.



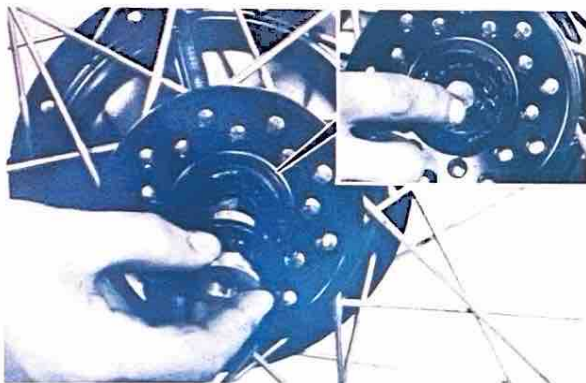
5. Make sure the brake shoes and springs are correctly installed in the shoe plate assembly. If any one of them is out of place, correct per the figure.



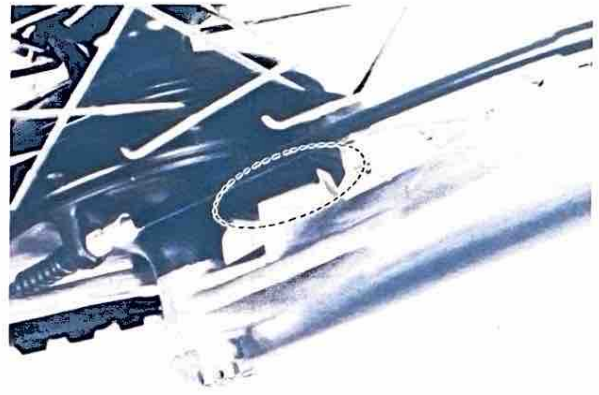
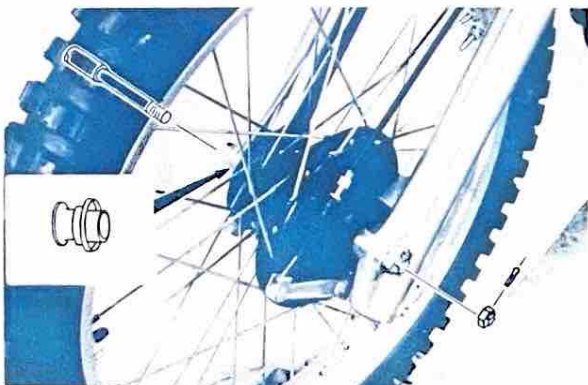
6. Install the hub dust cover (with collar) in the wheel hub on the right side of wheel.

NOTE: _____

To avoid damaging the oil seal lip, apply a light coat of lithium base grease to the oil seal lip and collar. If the collar is dirty, clean with a rag.

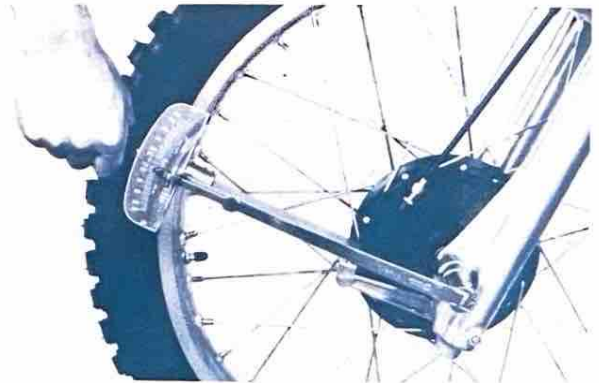


7. Install the brake shoe plate assembly in the wheel hub.
8. Insert the front wheel between the front fork legs so that the stopper (projection) on the front fork end is correctly engaged with the slot in the brake shoe plate.

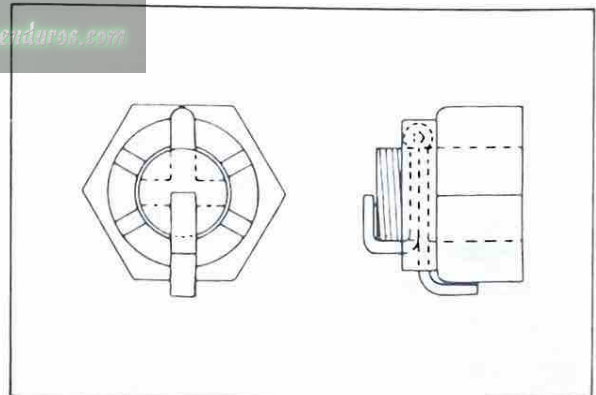


9. Insert the axle, and torque the axle nut to specification.

Tightening torque:
10.0 m·kg (72 ft·lb)

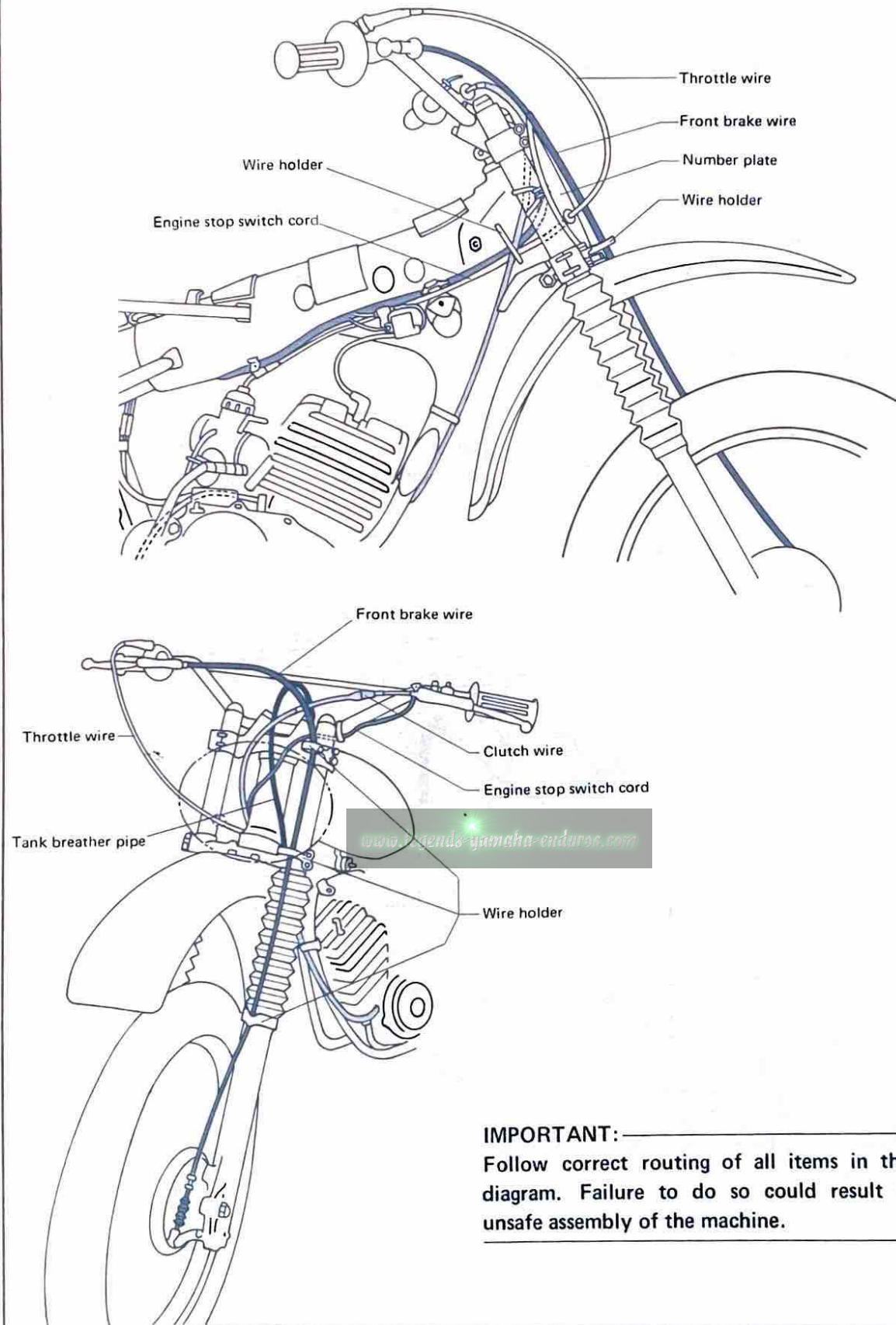


10. Lock the nut with cotter pin. The pin should be inserted downward, and the pin ends should be bent.



11. Pass the front brake wire through three wire holders as shown. And tighten the wire holder screw.
* For detailed cable routing, refer to "CABLE ROUTING DIAGRAM".

CABLE ROUTING DIAGRAM



IMPORTANT: _____
Follow correct routing of all items in this
diagram. Failure to do so could result in
unsafe assembly of the machine.

1. Engine stop switch cord

Switch → Secure to handlebar with band (2 places) → Top of handle crown (Inside of handle crown) → Front of breather pipe → Inside of clutch wire → Wire holder → Upper side of tank fitting bracket → Connect to wireharness

2. Front brake wire

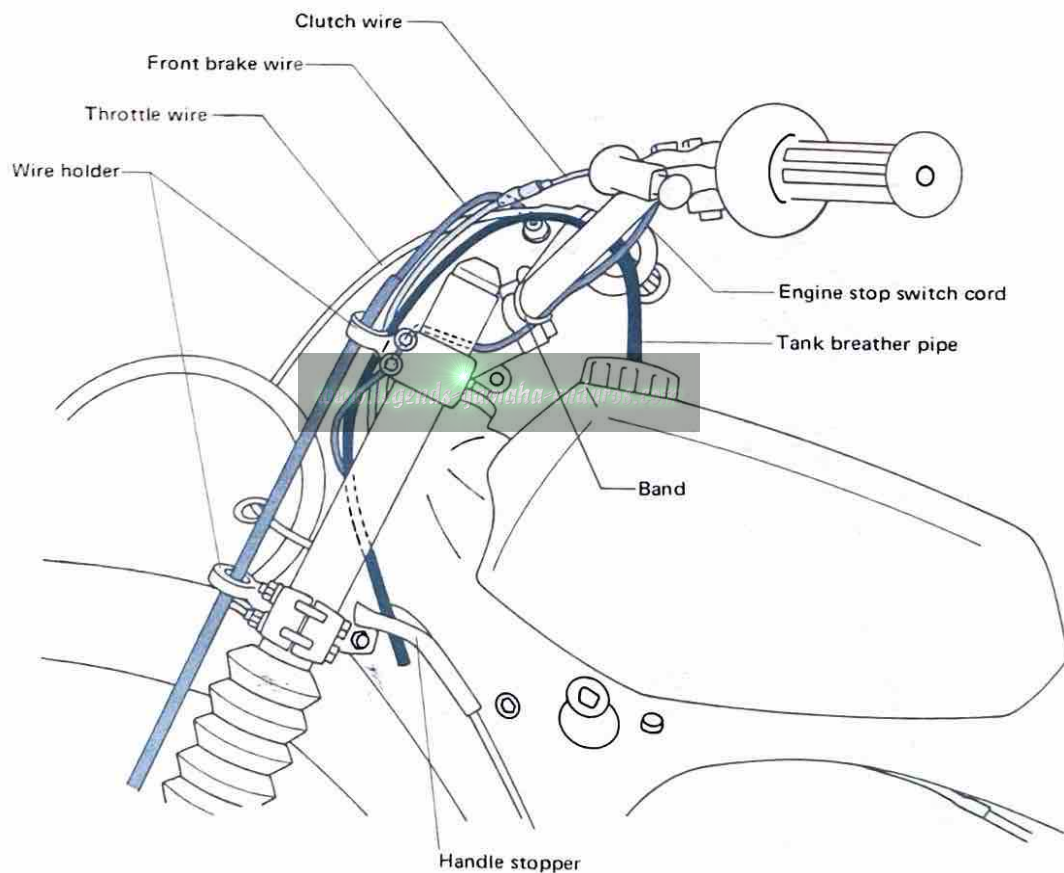
Lever (R) → Front of clutch wire → Wire holder (Left side of handle crown) → Front of number plate → Wire holder (Left side of under bracket) → Wire holder (Left side of fork leg) → Hold to shoe plate → Lever cam shaft

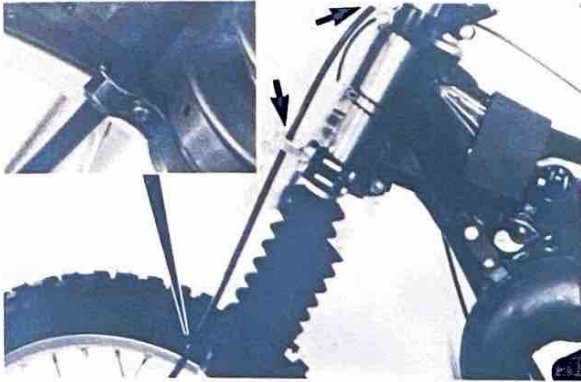
3. Tank breather pipe

Tank cap → Under the tensionbar → Front of handle crown (Inside of stop switch cord) → Left side of head pipe → Handle stopper

4. Throttle wire

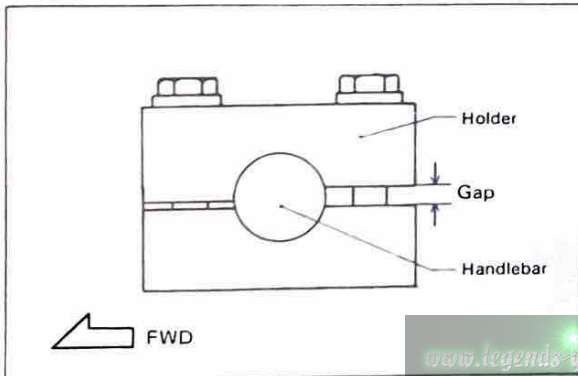
Throttle grip → Hole of number plate → Right side of head pipe → Inside of clutch wire → Wire holder → Upper of tank fitting bracket → Over the ignition coil → Carburetor





12. Remove the four hexagon bolts and two holders from the handle crown. And install the handlebars using the two removed upper holders and four hexagon bolts.

CAUTION: First tighten the bolt on the front end of holder, and tighten the bolt on the rear end.



Tightening torque:
1.5 m·kg (11 ft·lb)

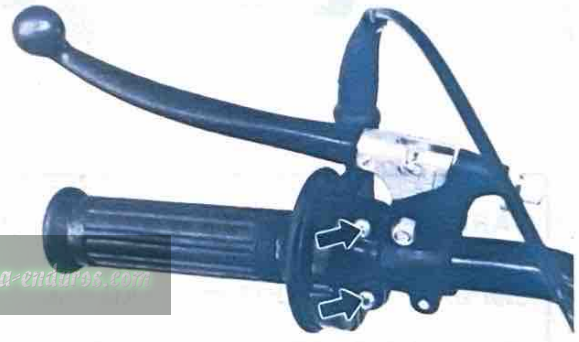


13. Wipe off any dust on right handlebar end, and apply a light coating of grease to handlebar end and throttle grip housing.



14. Bolt the upper and lower throttle housing together, and check the throttle grip for smooth action, then fully tighten the throttle housing screws.

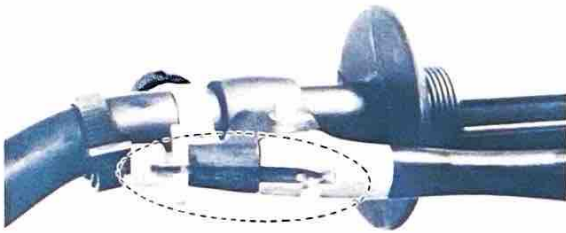
CAUTION: Tighten the screws in the stages and maintain an equal gap on each side of holder.



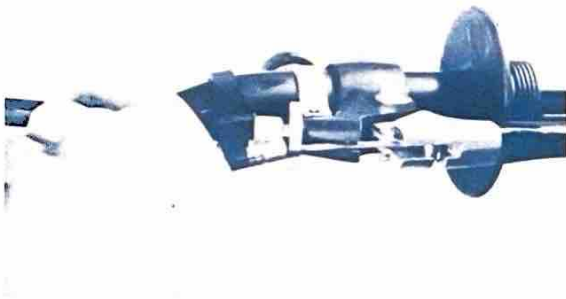
15. Brake wire and clutch wire installation

NOTE: Before assembly, lubricate cables with suitable cable lubricant.

- a. Screw in the cable length adjusters on the brake shoe plate (brake wire) and cable length adjuster (clutch wire).
- b. Fully loosen the lever adjuster locknut and screw in the adjuster until tight. Next, align the slits in the adjuster and adjuster locknut with the slit in the lever holder.

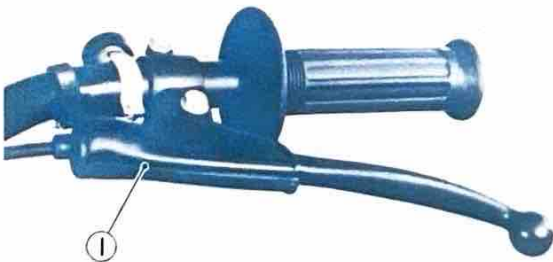


- c. Insert the wire end into the lever hole, and hook the outer cable end onto the adjuster locknut, then squeeze the lever. Next, while outer cable in the direction opposite the lever, release the lever quickly. While releasing it, seat the outer cable into the adjuster.



WARNING: Proper cable and wire routing is essential to insure safe vehicle operation, refer to "CABLE ROUTING DIAGRAM".

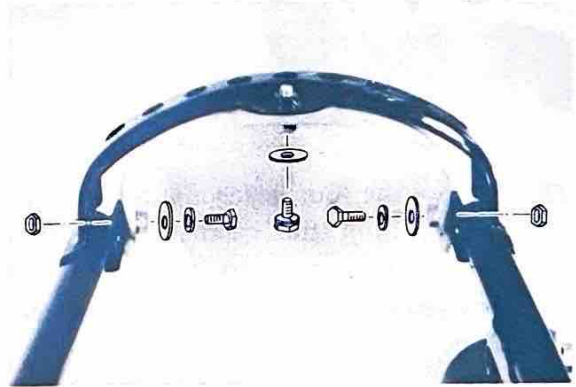
- d. Cover the brake and clutch lever holders with holder covers.



1. Holder cover

16. Install the rear fender using the hexagon bolt with spring washer and plain washers.

Tightening torque:
0.55 m·kg (3.6 ft·lb)



17. Install the right footrest using hexagon bolt and plate washer.

Tightening torque:
4.0 m·kg (29 ft·lb)

NOTE:

Match the punch mark on the footrest assembly to that the shaft punch mark.

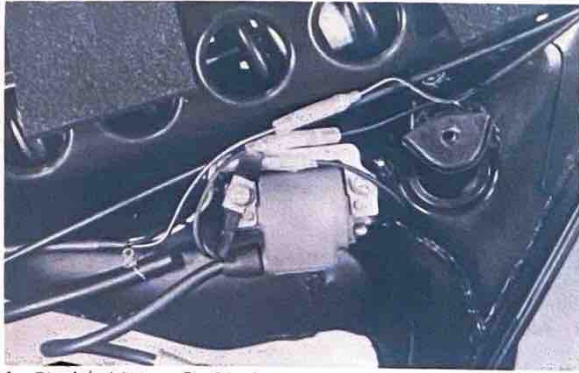


1. Match mark

18. Engine stop switch

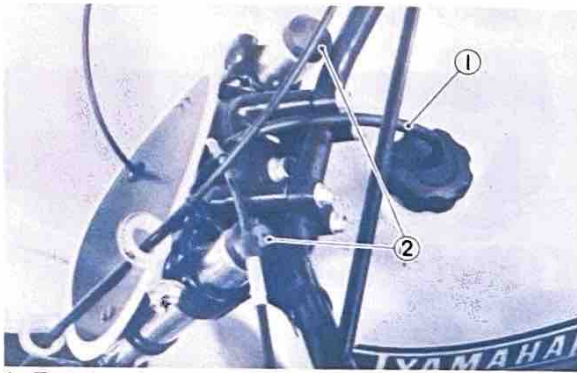
- a. Remove the bolts and tank fitting band. Remove the tank.
- b. Connect the engine stop switch cord wire to the lead wire of CDI unit (Black/White, Black) and clamp the wire. Reinstall the tank, fitting band and tighten bolt.

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



1. Black/white 2. Black

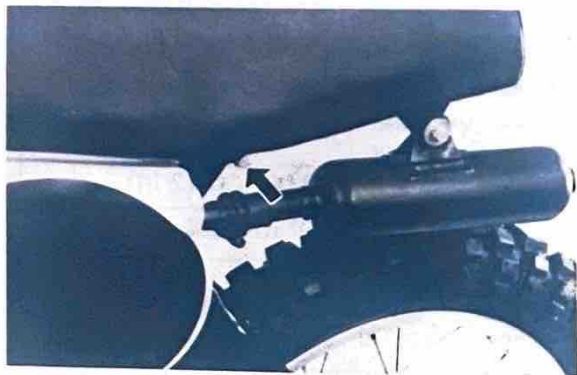
19. Connect the air breather pipe to the fuel tank cap. And install rubber cap.
 * For detailed cable routing, refer to "CABLE ROUTING DIAGRAM".



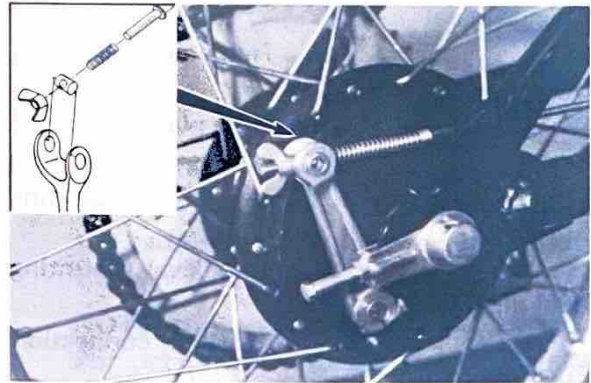
1. Tank breather pipe 2. Rubber cap

20. Install the seat using the hexagon bolts with washers.

Tightening torque:
 0.55 m·kg (3.6 ft·lb)



21. Install the brake rod to the camshaft lever. Adjust the brake pedal freeplay.



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, tightened or adjusted to specification. This check-up should be started with the front of the machine.

Item

Front wheel spokes	..... Tension
Front wheel rim	..... Deflection
Front wheel tire	..... Tire pressure
Front wheel axle nut	..... Cotter pin, tightening torque
Steering head	..... Adjustment, Tightening torque
Hanle holder	..... Tightening torque
Clutch lever	..... Free play, Tightening torque
Brake lever	..... Free play, Tightening torque
Throttle housing	..... Position, operation free play
Engine mounting bolt	..... Tightening torque
Carburetor joints	..... Tightness
Footrest	..... Position, tightness

Change pedal	Tightness, operation
Brake pedal	Position, free play, Operation
Seat	Mounting
Fuel tank	Fuel level, Mounting
Fuel pipe	Clips, connection
Fuel breather pipe	Routing, Connection
Rear fender	Mounting
Rear shock absorber	Cotter pin, Mounting
Rear swing arm pivot shaft	Tightening torque
Rear axle nut	Cotter pin, tightening torque
Chain puller	Locknut
Rear wheel	Spoke tension
Rear wheel rim	Deflection
Rear wheel tire	Tire pressure
Transmission	Oil level
Cables	Lubrication, operation
Electrical components	Adjustment, operation

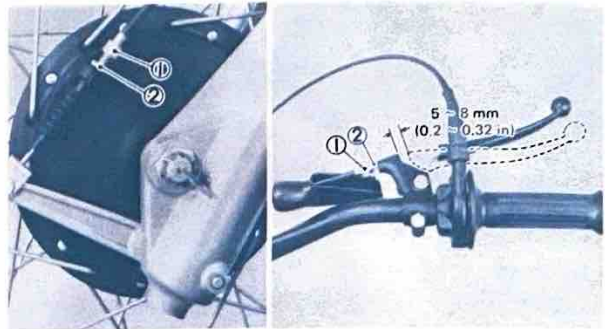
Adjustments

NOTE: _____
 This section deals with the main points only.
 For details, refer to the service manual for
 this model.

1. Front brake

Loosen the brake wire adjuster locknut, and adjust the play of the brake lever to specification. After the adjustment, be sure to screw in the locknut until tight.

Free play:
 5 – 8 mm (0.2 – 0.32 in)

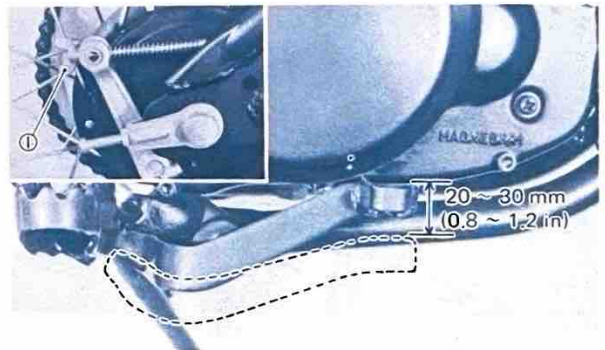


1. Adjustor 2. Locknut

2. Rear brake

Adjust the rear brake pedal free play to suit, providing a minimum of 20 – 30 mm (0.8 – 1.2 in).

Turn the adjusting nut on the rear brake ferrule in or out until brake pedal freeplay is suitable.



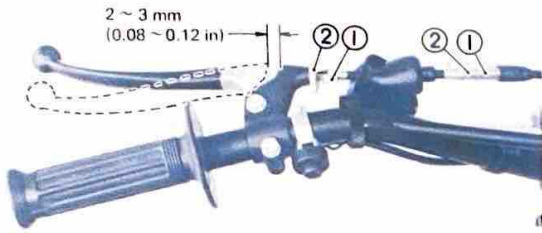
1. Adjustor

3. Clutch

Loosen the clutch wire adjuster locknut and adjust the clutch wire by turning the wire adjuster.

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

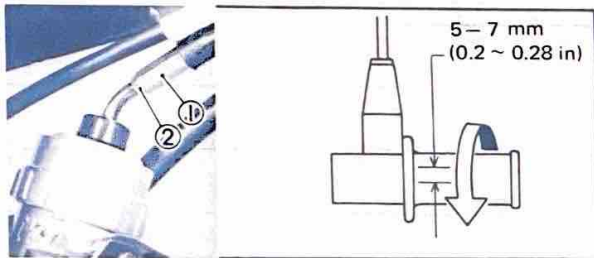
Free play:
 2 – 3 mm (0.08 – 0.12 in)



1. Adjuster 2. Locknut

4. Throttle

Check play in turning deflection of throttle grip. Play should be 5 – 7 mm (0.2 ~ 0.28 in) at grip flange. Loosen the locknut and turn the wire adjuster to make the necessary adjustment. After adjusting, be sure to tighten the locknut properly.



1. Adjuster 2. Locknut

Trouble shooting

If the engine will not start or will not start easily after inspections and adjustment, check the following parts.

1. Ignition timing — checking and adjustment

After starting the engine, check the ignition timing, and if necessary, adjust.

Ignition timing:
1.2 mm (0.047 in)

2. Spark plug — Checking and adjustment

When the machine is stored or not used for a long period of time, the spark plug may get wet with oil. If so, hard starting will result, remove the spark plug, and clean as required.

Spark plug:

Type N59G Champion
Gap 0.7 mm (0.028 in)

3. Carburetor — Cleaning

Remove the drain screw attached to the carburetor float bowl, and drain off the fuel. Add fresh fuel.

NOTE:

For details, refer to the service manual for this model.

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IWATA, JAPAN

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