

YAMAHA

YZ80E

ASSEMBLY MANUAL



90894-07742

FOREWARD

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 YZ80E
ASSEMBLY MANUAL
1st EDITION, AUGUST, 1977
SERVICE DEPT.
OVERSEAS ENGINEERING DIVISION
YAMAHA MOTOR CO., LTD.
IWATA, JAPAN
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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

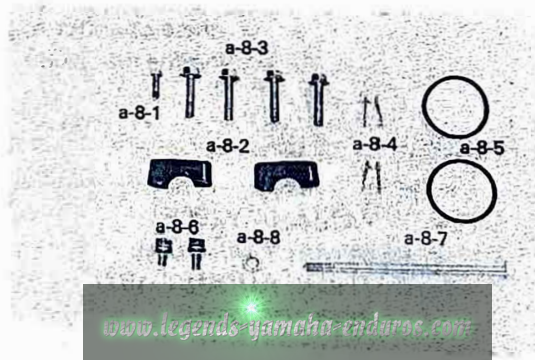
To remove the machine and parts packed in the card board crate, cut the vinyl bands around the box using a cutter or scissors. Next, remove the exterior carton by lifting it straight up.

PARTS CHECK LIST

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

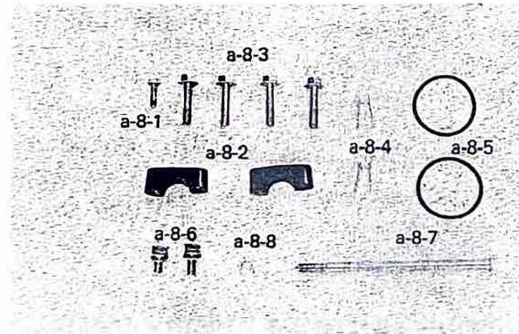
Details of parts on foam styrol case "a"

No.	Q'ty	Part name
a-1	1	Handle bar assembly
a-2	1	Footrest assembly
a-3	1	Front brake shoe plate assembly
a-4	1	Wheel axle collar 1
a-5	1	Front brake wire
a-6	1	Shift pedal
a-7	1	Number plate
a-8	1	Vinyl bag
a-9	1	Vinyl bag
a-10	1	Service tool assembly
a-11	1	Owner's service manual



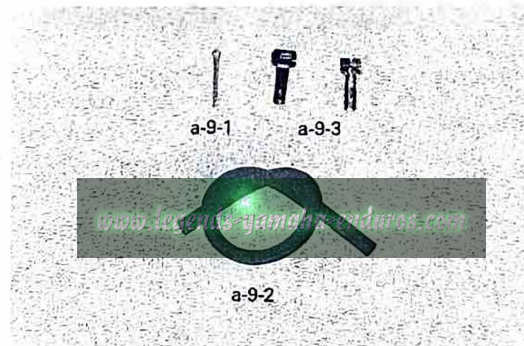
Details of parts in the vinyl bag "a-8"

No.	Q'ty	Part name	Remakrs
a-8-1	1	Bolt	Shift pedal
a-8-2	2	Handle upper holder	Steering handle
a-8-3	4	Flange bolt	
a-8-4	2	Number plate stay	Number plate
a-8-5	2	Band	
a-8-6	2	Hexagon head with washer bolt	Double seat
a-8-7	1	Bolt	Footrest
a-8-8	1	Washer	



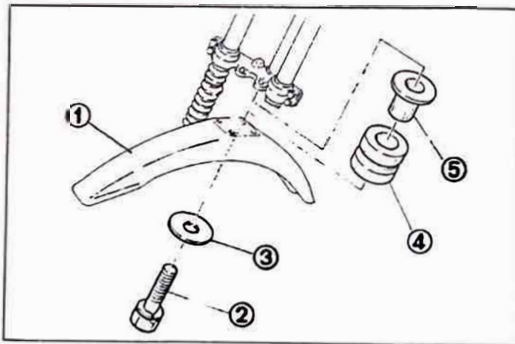
Details of parts in the vinyl bag "a-9"

No.	Q'ty	Part name	Remaks
a-9-1	1	Cotter pin	Front wheel
a-9-2	1	Fuel tank breather pipe	Fuel tank
a-9-3	2	Hexagon head with washer bolt	Footrest



SET-UP PROCEDURES

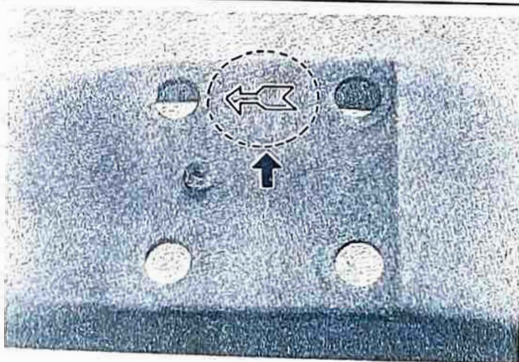
1. Remove the front fender held between the rear tire and the rear fender. Next, remove the front wheel.
2. Remove the nails from each corner of the crate and plastic piece holding the front wheel axle to the bottom board, and remove the struts.
3. Lift up the machine, and remove the rear wheel section from the bottom board. Then take out the machine.
4. 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.
5. Insert the front fender between the front forks, and secure the front fender using bolts, spring washers, plain washers, fender dampers and fender collars, which are fitted to the under bracket.



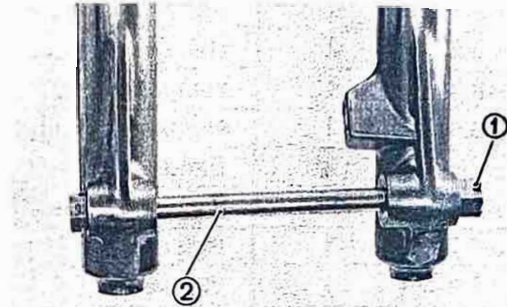
- | | |
|-----------------|------------------|
| 1. Front fender | 3. Plain washer |
| 2. Bolt | 4. Damper |
| | 5. Fender collar |

NOTE:

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

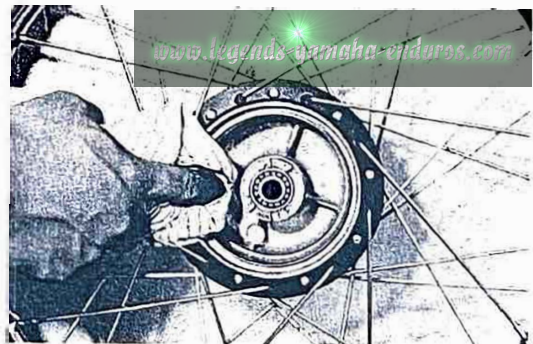


6. Remove the front wheel axle nut. Then remove the wheel axle.



1. Wheel axle nut
2. Wheel axle

7. Install the brake shoe plate assembly in the front wheel hub.
 - a. Clean the inner surface of the front wheel hub with a clean cloth.



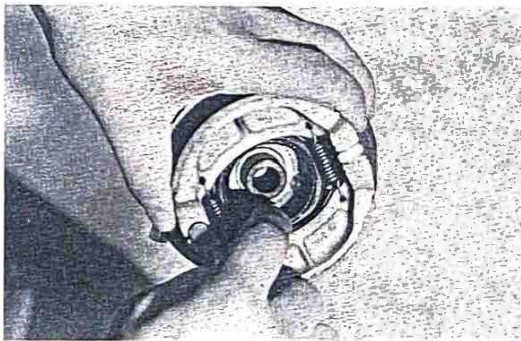
- b. Make sure the brake shoes and springs are correctly installed in the shoe plate assembly. If any one of them is out of place, correct per the figure.



- c. Apply a light coat of grease to the oil seal.

CAUTION:

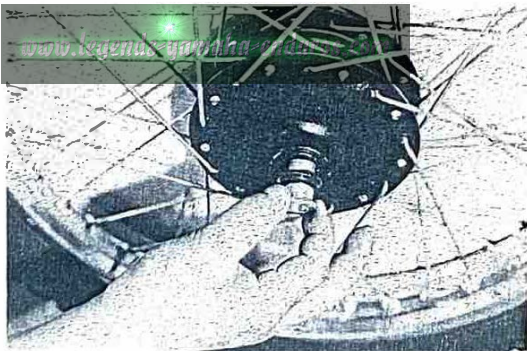
Take care not to put grease on the brake linings or inner surface of the brake drum. If you do so, clean using a rag dampened with a solvent. Foreign material on braking surface can cause impaired braking action.



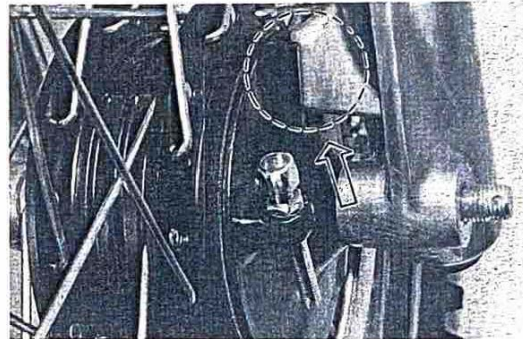
- d. Install the brake shoe plate assembly in the wheel hub.
8. Install the axle collar 1 (a-4) in the wheel hub on the right side of the front wheel.

NOTE:

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



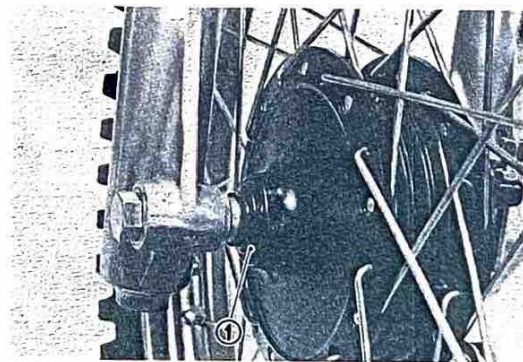
9. Install the front wheel on the front forks.
 - a. Insert the front wheel between the front fork legs so that the stopper (projection) on the front fork end is correctly engaged the slot in the brake shoe plate.



- b. Hold down the axle collar 1 on the right side of the front wheel and set the front wheel in place.
- c. Insert axle, and install the axle nut.
- d. Torque the axle nut to specification while holding the opposite side.

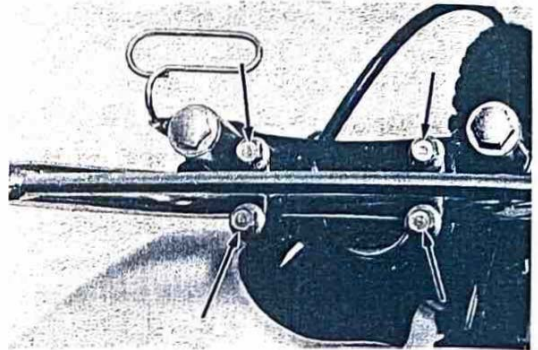
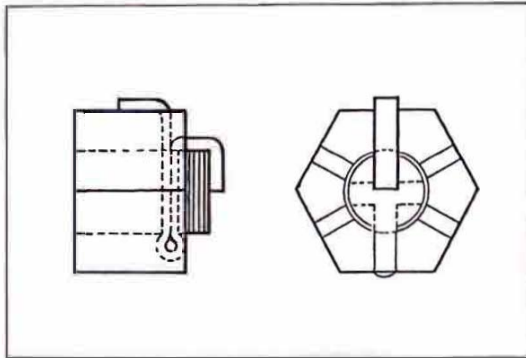
Tightening torque:

5.0 — 7.0 m·kg (36 — 51 ft·lb)



1. Axle collar 1

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

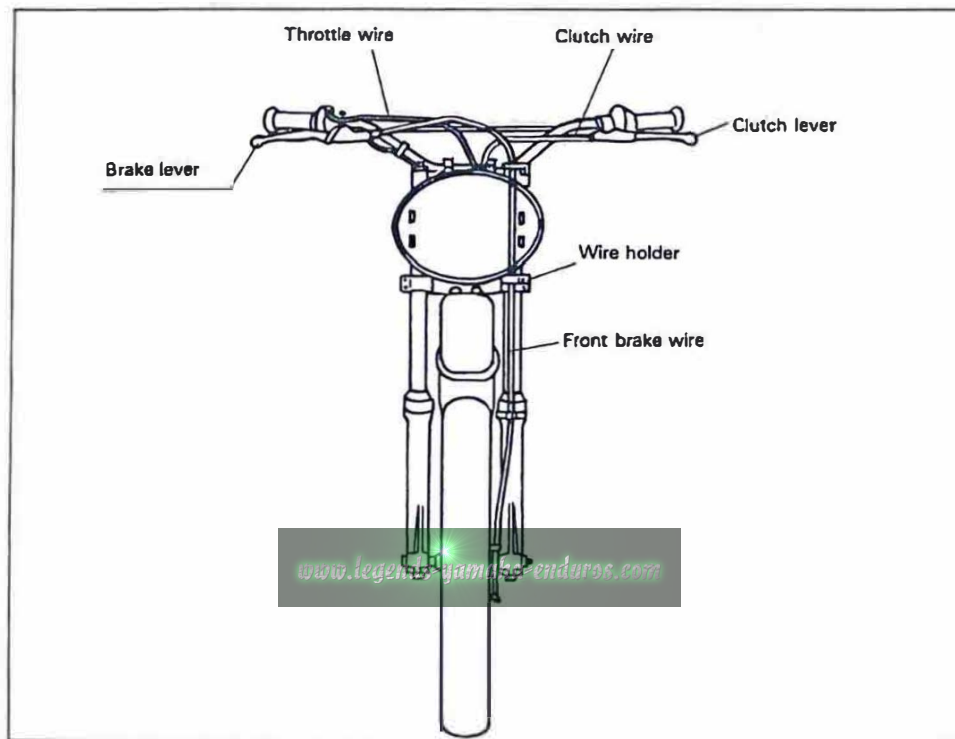
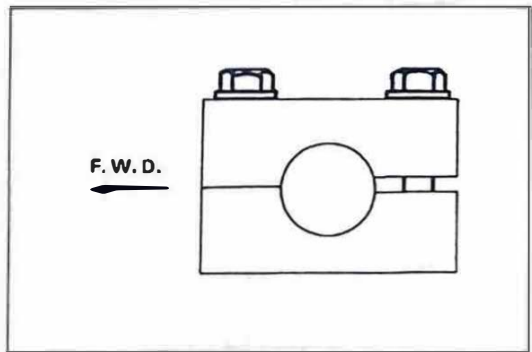


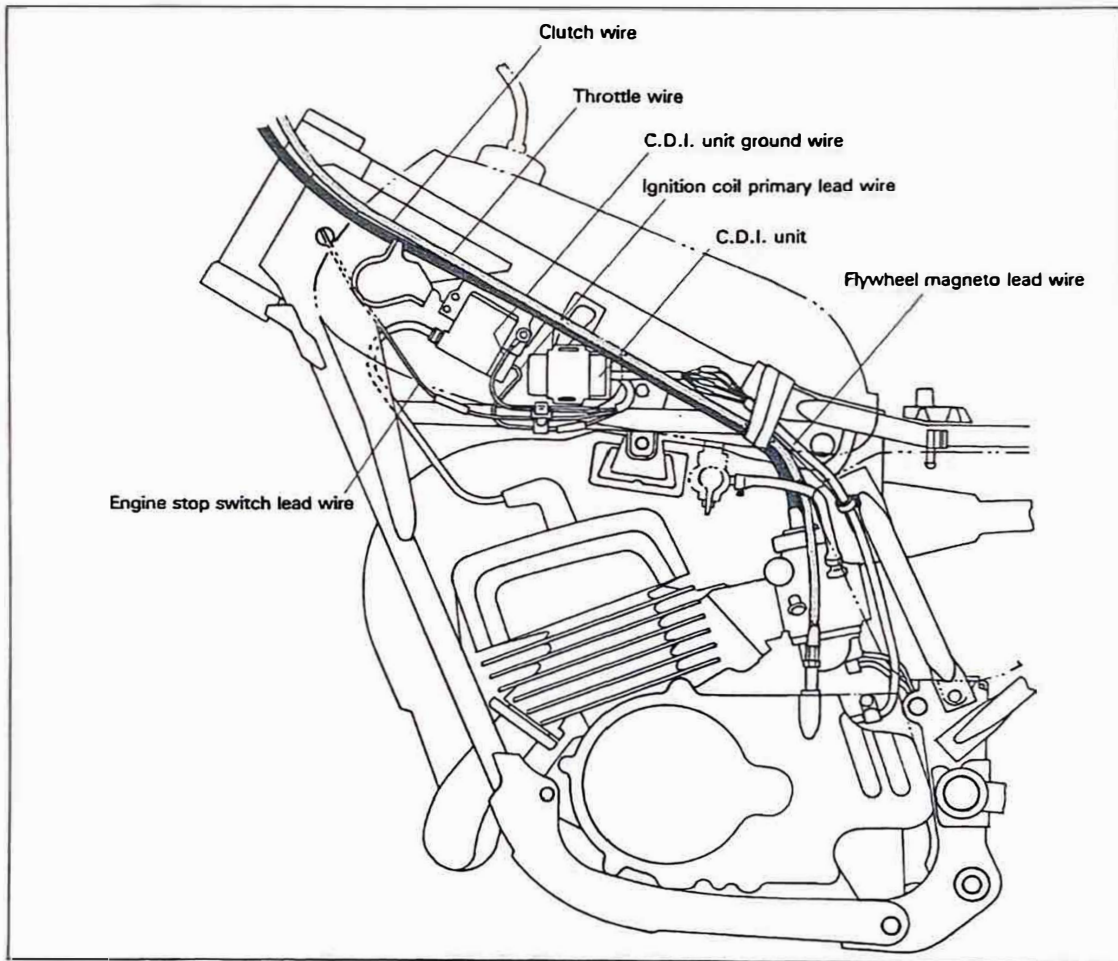
10. Handlebar installation

- a. Remove the four hexagon bolts, and remove the two handlebar holders.
- b. Install the handlebar using the two removed upper holders and four hexagon bolts.

CAUTION:
First tighten the bolts on the front side of the handlebar holder and tighten the bolts on the rear side.

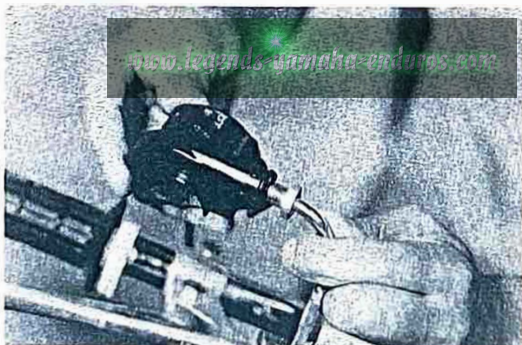
Tightening torque:
1.1 – 1.8 m·kg (8 – 13 ft·lb)



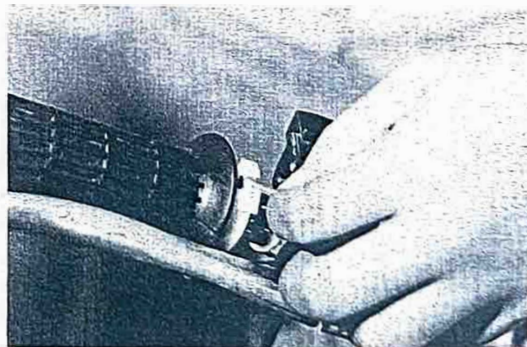


11. Throttle wire installation

- a. Remove the two setting screws holding the right handle switch assembly, and separate the switch assembly into the upper and lower halves.
- b. Fully screw up the lock nut on outer cable end, and then screw in the throttle grip housing on outer cable end.



- c. Hook the throttle wire end into its seat in the throttle guide housing. Then grease the throttle wire and grip housing.
- * For detailed wire routing, refer to "CABLE ROUTING DAIGRAM".



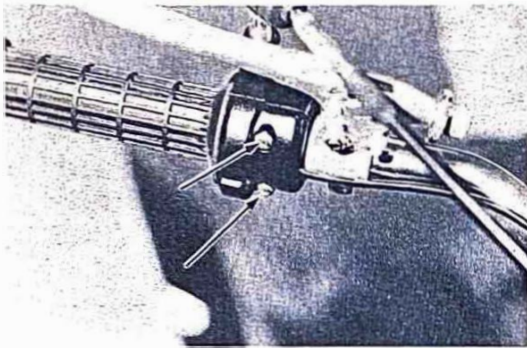
- d. Put together the two throttle grip housing halves, and secure to the handlebar.

NOTE:

During this operation, use care not to pinch the engine stop switch lead wire.

CAUTION:

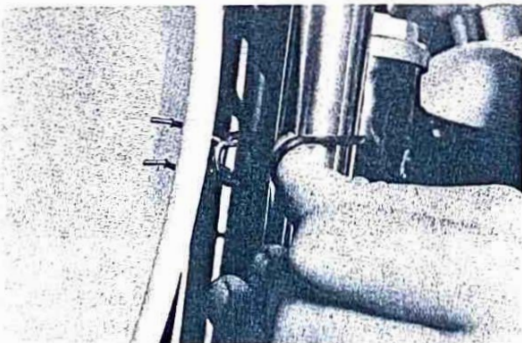
Make certain throttle grip rotates on handlebar freely, without binding. If not, normal throttle return will be impaired.



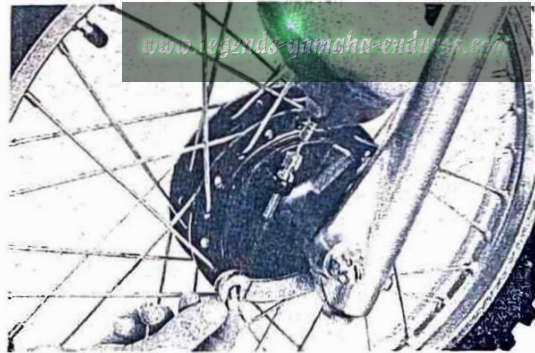
- e. Lock the outer cable lock nut, and cover the lock nut with cap cover.



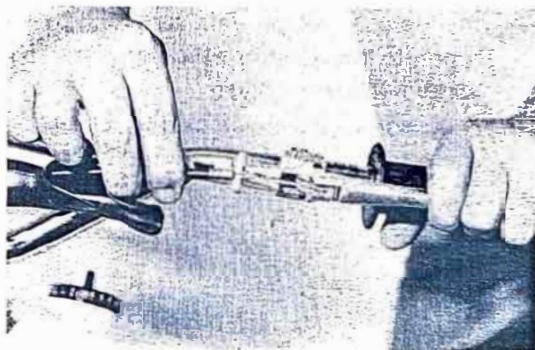
- 12. Install the number plate (a-7) on the front forks using the band.



- 13. Brake wire and clutch wire installation
 - a. Screw in the cable length adjusters on the brake shoe plate (brake wire) and the crankcase cover (clutch wire).
 - b. Align the slit in the adjuster and adjuster lock nut with the slit in the front brake shoe plate, next insert the front brake shoe wire end to the camshaft lever and hook the outer cable end onto the adjuster.



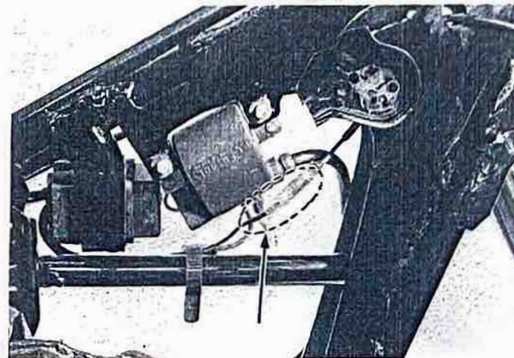
- c. Fully loosen the lever adjuster lock nut, and screw in the adjuster until tight. Next, align the slit in the lever holder.
- d. Insert the wire end into the lever hole, and hook the outer cable end onto the adjuster lock nut, then squeeze the lever. Next, while pulling the outer cable in the direction opposite to the lever, release the lever quickly. While releasing it, seat the outer cable into the adjuster.



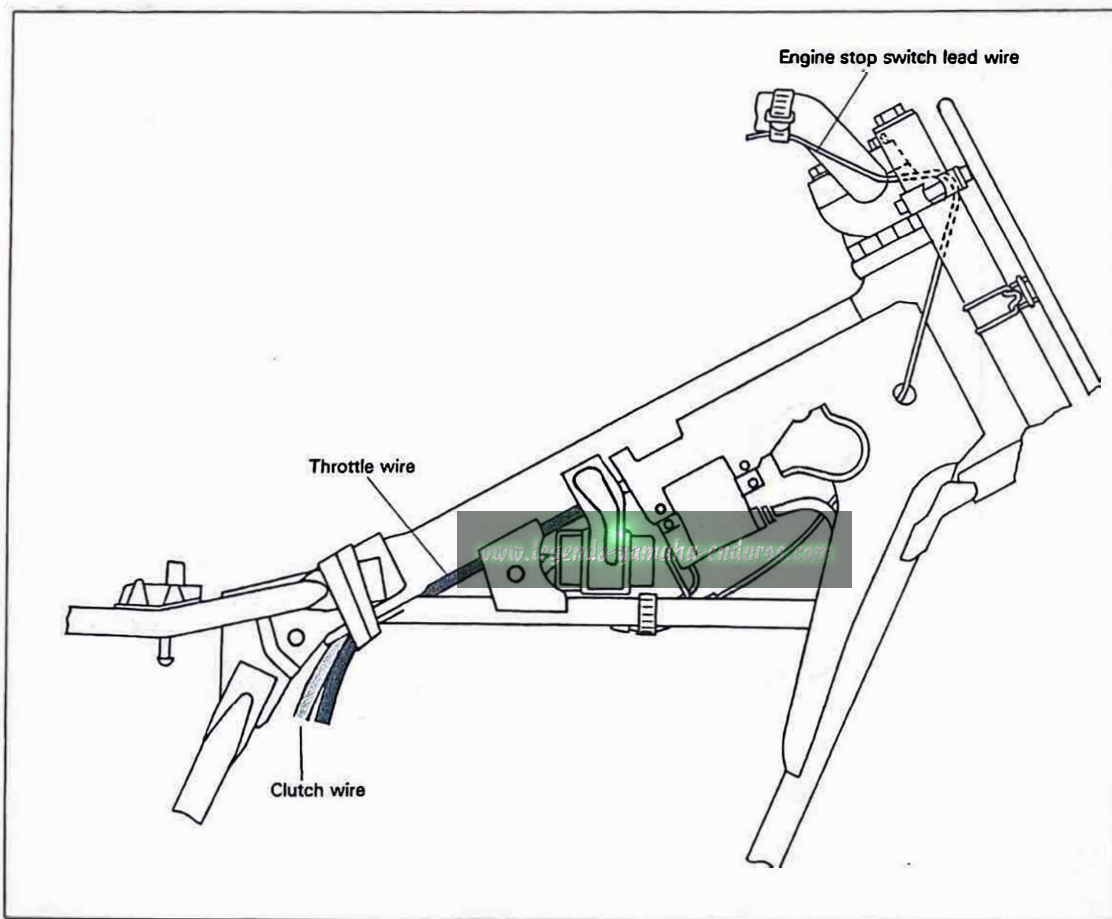
CAUTION:

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

- e. Adjust wire length according to the specification in the model YZ80E Owner's Service Manual.
 - f. Cover the lever covers on the brake and clutch lever holders.
14. Connect the engine stop switch lead wire (coming from the engine stop switch) to the lead wire (black/white) coming from the magneto assembly in the connector.

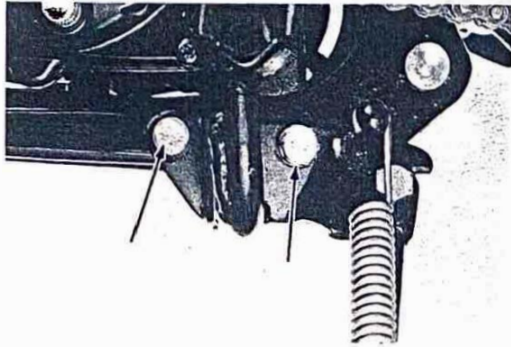


NOTE: _____
Before connecting the engine stop switch lead wire, fuel tank should be removed.

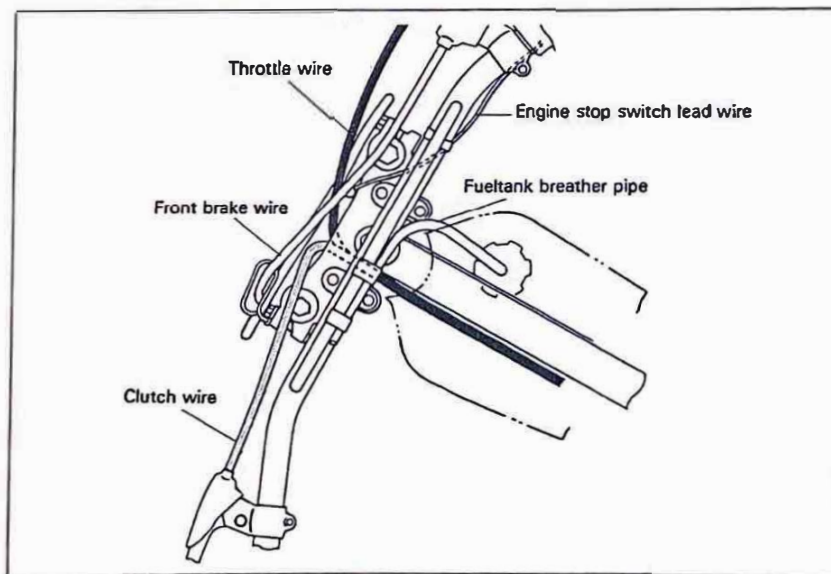


15. Footrest installation

Install the foot rest assembly using two hexagon bolts with spring washer (a-9-3) spring washer (a-8-7) and footrest mounting bolt (a-8-8)

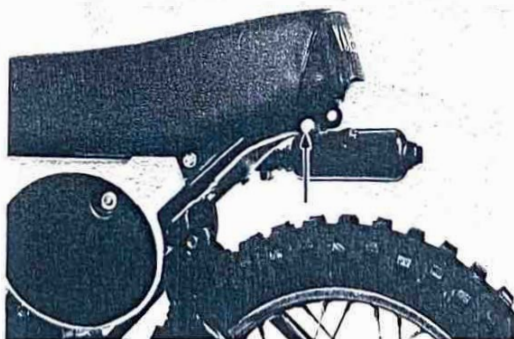


16. Connect the air breather pipe to the fuel tank cap, next tape the breather pipe with tension bag.



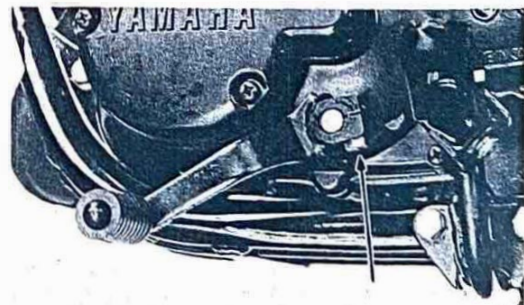
17. Seat installation

Insert the hook on the end of the seat into the frame, and secure both sides of the seat with plain washers and bolts.



18. Shift pedal installation

Install the shift pedal using a bolt.



INSPECTIONS

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

THIS CONCLUDES THE ASSEMBLY PORTION. HOWEVER, THE UNIT MUST STILL BE "SET-UP" FOR DELIVERY TO THE CUSTOMER.

For specifications regarding ignition timing, carburetor adjustment, tire pressures transmission oil type and quantity, etc., refer to appropriate section of YZ80E Owner's service Manual.

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YAMAHA MOTOR CO.,LTD.

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