

TY175C Assembly manual



www.legends-yamaha-enduros.com

90894-07511

FOREWORD

This Assembly Manual contains the information required for the unpacking and assembly of Yamaha motorcycles so that the Yamaha serviceman can assemble the machine 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 make a full study on the service of Yamaha motorcycles using the relevant service manuals.

NOTICE

The service specifications given in this Assembly Manual are based on the model as manufactured when this manual was published. Since this model may require improvements, the service standards 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.

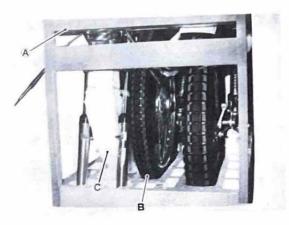
www.legends-yamaha-enduros.com

YAMAHA TY175C ASSEMBLY MANUAL 1st EDITION, August, 1975 OVERSEAS SERVICE DEPARTMENT YAMAHA MOTOR CO., LTD. IWATA, JAPAN LIT-11666-00-10

PARTS CHECK LIST

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

No.	Parts name	Q'ty
A	Foam styrol case	1
В	Front wheel	1
С	Front fender	1

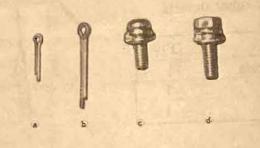


1. Details of parts on foam styrol case "A".



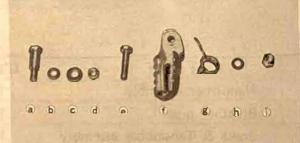
No.	Parts name	Q'ty	
1	Handlebar assembly	1	
2	Breather pipe		
3	Brake & Tensionbar assembly	1	
4	Vinyl bag A	1	
5	Vinyl bag B	1	
6	Service tool	1	
7	Owner's service manual	1	
8	Warranty guide book	1	
9	Front wheel collar	1	

2. Details of parts in the vinyl bag "A"



Setting	Parts name	Q'ty	Remarks
а	Cotter pin (small)	1	for tension bar
b	Cotter pin (large)	1	for front wheel
с	Pan head screw with spring and plain washer	1	for front brake adjuster
d	Hex. bolt with spring and plain washer	4	for front fender

3. Details of parts in the vinyl bag "B"



Setting position	Parts name	Q'ty	Remarks
а	Tension bar bolt 8 mm	1	
b	Spring washer	SITE TO T	B
С	Plain washer	1001	for tension bar
d	Hexagon nut	1	- PERSONAL SOLIS
е	Bolt 8 mm	1	
f	Footrest	1	for footrest
g	Return spring	1	(right)
h	Plain washer	1	- MALTERS GALS
1	Nut 8 mm	1	

PREPARATION

- To assemble the machine correctly, service tools, supplies and working space are required.
- 2. The workshop where the machine is assembled should be clean and large. The floor should be level.



YAMAHA TRIAL

UNPACKING

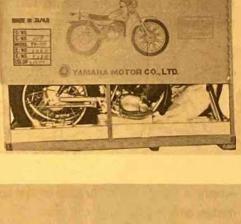
Note on transportation

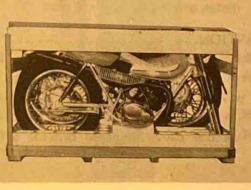
Use care not to butt the machine, packed in the crate, against a hard object or give it a heavy shock during transportation or in the service shop.

Procedures 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.

www.legends=yamaha=enduros.com

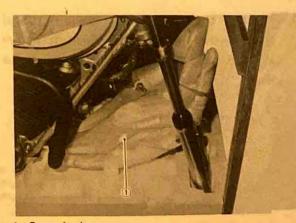




 Remove the front fender and fender stay held between the right and left front forks.

Next, remove the front wheel.

- 2. Remove the nails from each corner of the crate, and remove the struts.
- 3. Lift up the machine, and remove the rear wheel section from the foam styrol base. Then take out the machine.



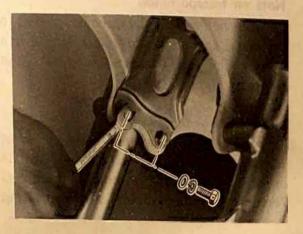
1. Front fender

SET-UP PROCEDURES

 To install the front fender and front wheel, 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.

www.legends-yamaha-enduros.com

 Insert the front fender between the front forks, and secure the front fender using 6 mm hex head bolts, spring washers and plain washers, for each.

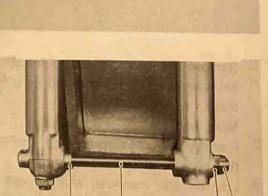


 Apply a light coat of grease to the speedometer drive gear and oil seal.

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.

 Remove the front wheel axle nut and plain washer, and loosen the nuts securing the axle holder. Then remove the wheel axle and distance collar.



Distance collar
 Wheel axle
 Plain washer

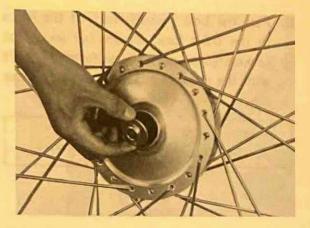
- 4

4. Axle nut

5. Install the collar in the wheel hub on the right side of the front wheel.

NOTE: ____

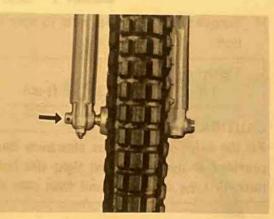
To avoid damaging the oil seal lip, apply a light coat of lithium base grease to the oil seal lip and collar. If the collar is dirty, clean with a rag.



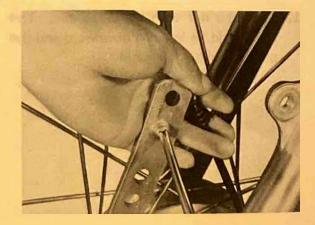
 Clean the inner surface of the front wheel hub with a clean cloth. And install the brake shoe plate assembly in the wheel hub.

www.legends-yamaha-enduros.com

 Insert the front wheel between the front fork legs. Insert the axle, mount the plain washer on the axle, and install the axle nut. Lightly tighten the axle holder nuts so that the axle does not turn while the axle nut is tightened.



8. Install the front brake adjuster stay to tension bar hole with panhead screw.



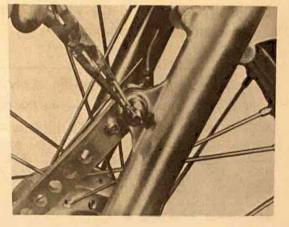
- 5 -

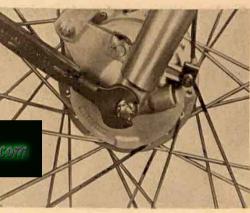
 Pass the bolt through each of the holes in the front fork, tension bar and front brake adjuster stay. Then fasten the bolt with the nut and secure it with the cotter pin.

> Tightening torque: 1.4 - 2.2 m·kg (10.1 - 15.9 ft-lb)

10. Torque the axle nut to specification.

Tightening torque: 5.0 - 7.0 m-kg (36 - 51 ft-lb)





www.legends-yamaha-enduros.com

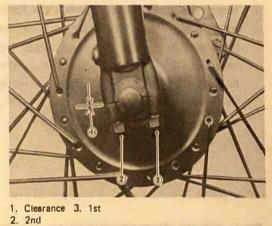
11. Torque the axle holder nuts to specification.

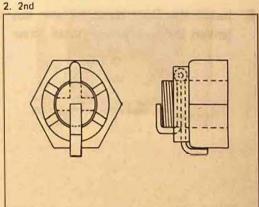
Tightening torque: 1.8 - 2.5 m-kg (13 - 18 ft-lb)

CAUTION __

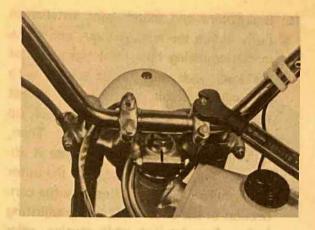
Fit the axle holder so that clearance can be provided at the rear. And tight the holder nuts, first the front side and then rear side.

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





- 13. Handlebar installation
- a. Remove the four hexagon bolts, and remove the two handlebar holders.
- b. Insert the all lead wire coming from the handle switches through the handle crown into the headlight body.



c. Install the handlebar using the two removed upper holders and hexagon bolts.

Tightening torque: 1.1 - 1.8 m-kg (7.96 - 13.0 ft-lb)

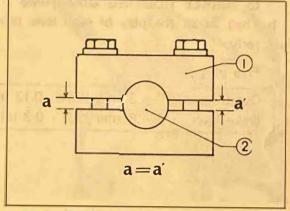
CAUTION: _____

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

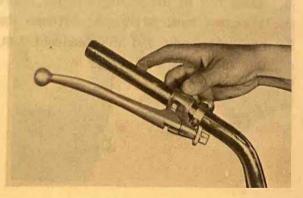
14. Grease the right end of the handlebar and the throttle grip housing, and install the throttle grip.

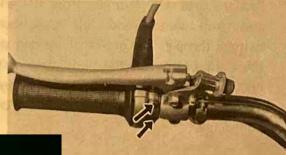
CAUTION: _____

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



1. Holder 2. Handlebar





www.legends-ynmaha-enduros.com

-7-

- 15. Brake wire and clutch wire installation
 - a. Fully loosen the lever lock nut, and screw in the adjusting bolt until tight so that the lever lock nut slot is aligned with the adjusting bolt slot. Next, connect the cable end to the lever, and hook up the outer cable to the lock nut. Then, fully pull in the lever, and release it abruptly. At the same time, pull the outer cable quickly. This makes easy the connection of the outer cable to the adjusting bolt. For detailed cable routing, refer to "CABLE ROUTING DIAGRAMS".
 - b. Then adjust the play of each lever properly.

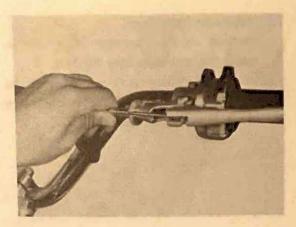
Free play

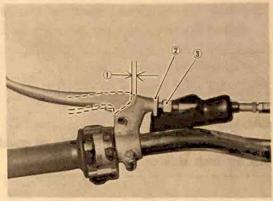
			3 mm (0.08 - 0.1	
Brake lever	÷	5 -	8 mm (0.2 - 0.3	in)

16. Remove the phillips head screw from the lower half of the headlight body. Insert a slotted head screwdriver between the headlight body and the headlight rim, pry out the lens assembly.

www.legends-yamaha-enduros.com

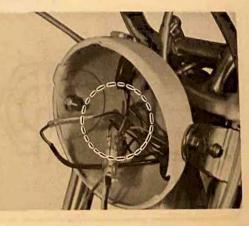
17. Pass the lead wire (coming from the engine stop switch and left handlebar switch) through the grommet located at the right bottom of the body, and connect lead wires inside the headlight body. Lead wires of the same color should be connected.





1. Free play 3. Adjuster 2. Locknut

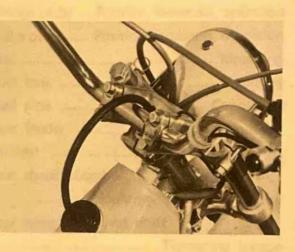




18. When installing the headlight lens assembly, care should be used so that wires are not pinched. Secure the headlight assembly in place with the phillips head screw.

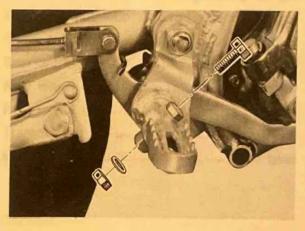
www.legends-yamaha-enduros.com

- 19. Connect the air breather pipe to the fuel tank cap, and thread it through the hole located in front of the steering upper crown.

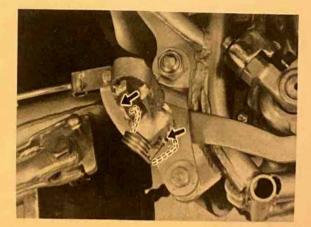


20. Footrest installation

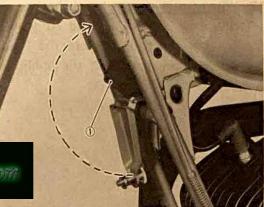
a. Align the hole in the footrest bracket with the hole in the footrest, and insert the bolt into the holes. Then tighten the nuts so that the footrest can be lightly moved.



b. Next, install the return spring.



21. Install the service tool assembly as photo.



www.legends-yamaha-enduros.com

1. Tool assembly

- 10 -

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

Front wheel axle holder nuts

Front brake tension plate lock 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
Fuel tank	Mounting
Fuel pipe	Connection
Rear fender	Mounting
Taillight Mounti	ing, wiring
Rear shock absorber	

..... Mounting, tightening torque Rear swing arm pivot shaft

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
Engine oil Oil level
Transmission oil Oil level

Adjustments

NOTE: ____

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

- 1. Idling speed adjustment
 - a. Before adjustment, fully warm up the engine.
 - b. Fully tighten the air screw, and turn in and out the throttle stop screw so that the engine runs at the lowest possible speed.
 - c. Slowly back out the air screw, and the engine speed increase. When the engine idles faster, stop turning the air screw. Standard turns out: 1.1%
- d. Next, back out the throttle stop screw so that the engine idles at the specified speed.

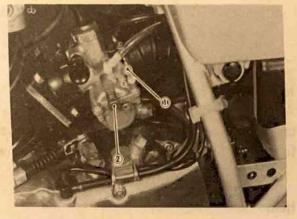
Standard speed: 1,050 · 1,150 rpm

2. Throttle wire adjustment

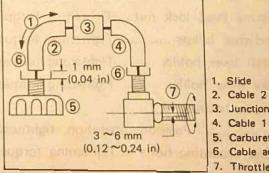
- a. After adjusting the idling speed, adjust the play in throttle wire 2 to 1.0 mm. (0.04 in)
- b. Next, adjust the play to throttle wire 1 to 3 - 6 mm (0.12 - 0.24 in) at the throttle grip flange.

3. Pump wire adjustment

- a. Remove pump cover.
- b. Open throttle slightly to take up all play.
- c. Loosen wire adjuster lock nut and turn adjuster in or out until the proper mark on the adjusting pulley is aligned with the guide pin.

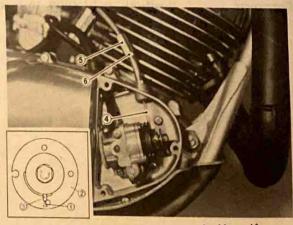


1. Pilot air screw 2. Throttle stop screw



1, Slide

- 2. Cable 2
- 3. Junction block
- 5. Carburetor cap
- 6. Cable adjuster
- 7. Throttle grip



- 1. Mark (△)
- 2. Adjust pulley
- 3. Pin
- 4. Pump cable
- 5. Adjuster
- 6. Adjuster lock nut

 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.

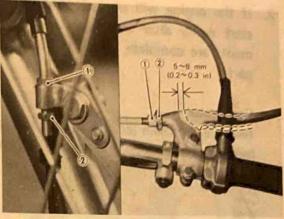
Standard value: 5 - 8 mm (0.2 - 0.3 in)

5. Clutch wire adjustment

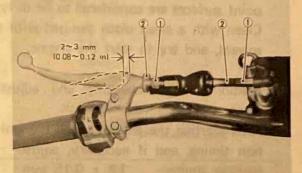
Loosen the clutch wire adjuster lock nut, and adjust the clutch wire by turning the wire adjuster. Turning the adjuster clockwise (the adjuster is tightened) increases clutch wire play, while turning counterclockwise decreases the play. The play should be 2 - 3 mm (0.08 - 0.12 in) at the position shown in the figure.

 Rear brake pedal adjustment Rear brake pedal play can be adjusted by turning the adjusting nut on the rear end of the brake rod. Turning clockwise (tightening) decreases play. Turning counterclockwise (loosening) increases play.
 Standard value: 20 - 30 mm (0.8 - 1.1)

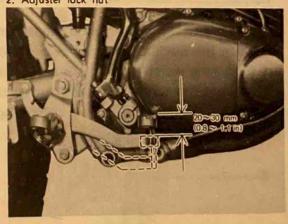
in) / at the brake pedal



Adjuster
 Adjuster lock nut



Adjuster
 Adjuster lock nut



www.legends-yamaha-enduros.com

1. Adjusting nut

- If the engine will not start or will not start easily after inspection and adjustments are complete, check the following parts.
 - a. Carburetor

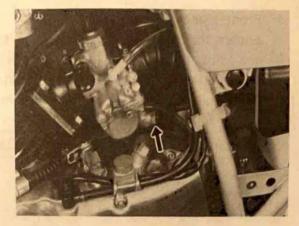
Remove the main jet attached to the carburetor float bowl, and drain off the gasoline.

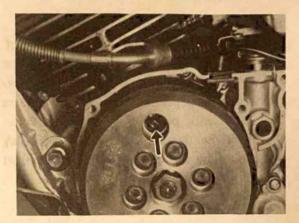
- b. Breaker points checking and cleaning If the engine is hard to start, the breaker point surfaces are considered to be dirty. Clean with a clean cloth damped with a solvent, and try to start the engine.
- c. Ignition timing checking and adjustment
 After starting the engine, check the igni-

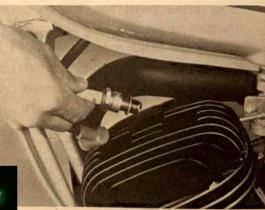
tion timing, and if necessary, adjust.

Ignition timing: 1.8 ± 0.15 mm (0.071 ± 0.006 in)

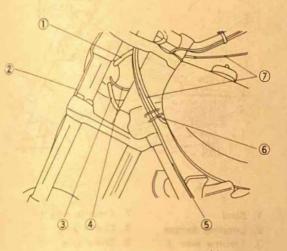
d. Spark plug – checking and adjustment When the machine is stored or not used for a long period of time, the spark plug may get wet with oil. If so, hard starting will result. Remove the spark plug, and clean as required.



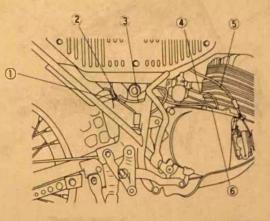




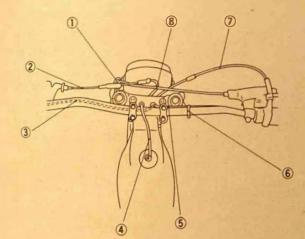
CABLE ROUTING DIAGRAM



- 1. Switch handle wire (left)
- 2. Brake wire
- 3. Wire harness
- 4. Switch handle wire (right)
- 5. Clutch wire
- 6. Wire holder
- 7. Throttle wire 1

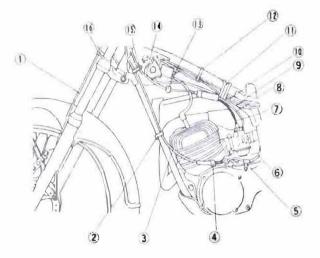


- 1. Clamp
- 2. Stop switch cord
- 3. Oil pipe
- 4. Delivery pipe
- 5. Pump wire
- 6. Crankcase (R) breather pipe



1. Wire holder
2. Under bracket
3. Front brake wire
4. Brake cam lever

- 1. Wire holder
- 2. Clutch wire
- 3. Switch handle wire (left)
- 4. Fuel tank breather pipe
- 5. Switch handle wire (right)
- 6. Band
- 7. Throttle wire 1
- 8. Brake wire



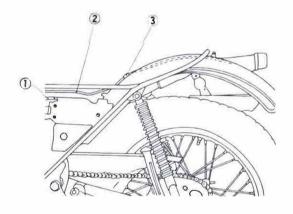
⁽⁹⁾⁽⁸⁾ (10) (7) 00 1 2 (3) 4 5 6

- 1. Brake wire
- 2. Band
- 3. Clutch wire
- 4. Clutch wire holder
- 5. Clamp
- 6. Flywheel magneto cord 14. Throttle wire 1
- 7. Throttle wire 2
- 8. Pump wire
- 9. Wire harness
- 10. Oil tank breather pipe
- 11. Locating damper
- 12. Band
- 13. Clamp

 - 15. Wire holder 16. Wire holder
- 2. Locating damper 3. Throttle wire 2

1. Band

- 4. Delivery wire
- 5. Oil pipe
- 6. Pump wire
- 7. Throttle wire 1
- 8. Clutch wire
- 9. Brake wire
- 10. Wire holder
- 11. Wire harness



- 1. Oil tank breather pipe
- 2. Tail lamp wire
- 3. Clamp







LIT-11666-00-10