



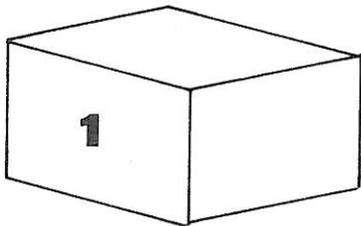
**YAMAHA**

**XS2**

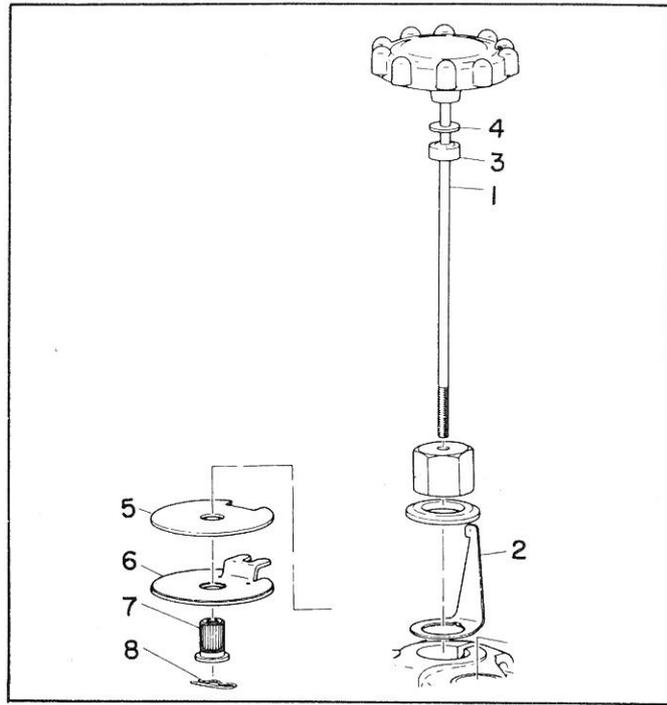
**ASSEMBLY MANUAL**

**YAMAHA MOTOR CO., LTD.**

650  
1972

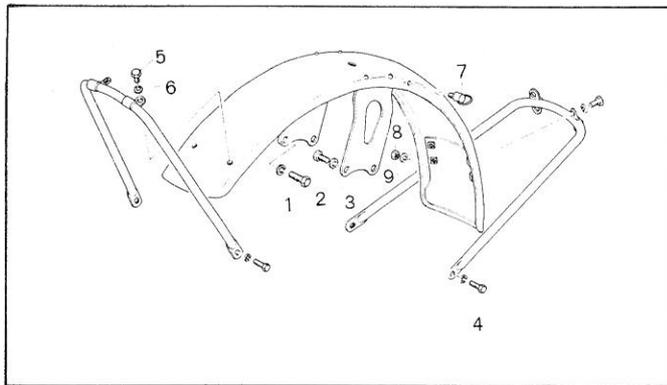


1	Damper shaft	256-23419-00	1
2	Damper spring	256-23428-00	1
3	Washer	141-23427-00	1
4	Special washer	156-23418-00	1
5	Friction damper	256-23425-00	1
6	Damper plate 2	256-23424-00	1
7	Damper guide	256-23424-00	1
8	Clip	102-25375-00	1

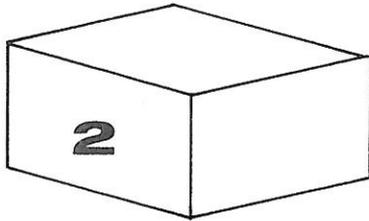


Rider's manual	306-28199-10	1
----------------	--------------	---

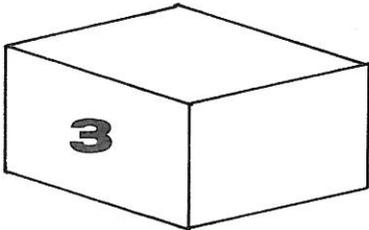
1	Bolt	97201-08020	2
2	Bolt	97201-08025	2
3	Spring washer	92901-08100	4
4	Bolt	91103-06015	4
5	Bolt	91103-06012	6
6	Spring washer	92901-06100	10
7	Wire holder	174-21518-00	1
8	Nut	92801-06100	1
9	Spring washer	92901-06100	1



Cotter pin	91401-30025	1
------------	-------------	---

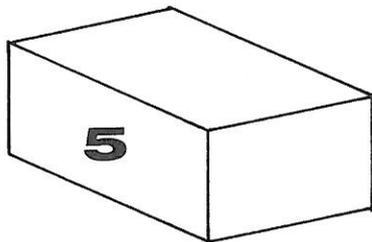


Speedometer	256-83570-40	1
Tachometer	256-83540-20	1
Battery	306-82110-70	1
Foot rest ass'y (R)	256-27421-00	1
Foot rest ass'y (L)	256-27411-00	1

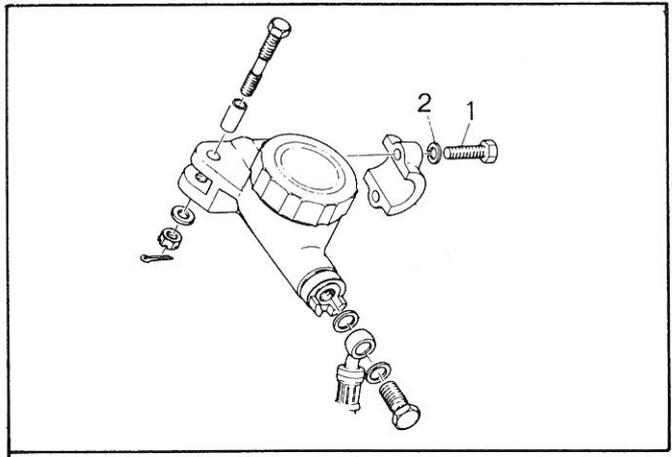


Taillight ass'y	256-84710-61	1
-----------------	--------------	---

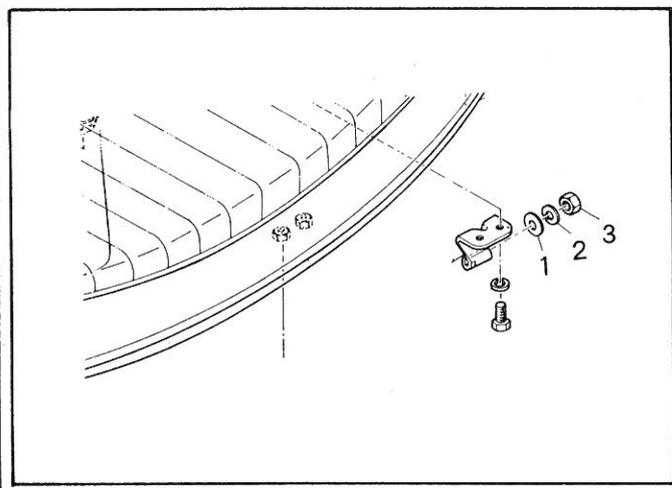
Tail light mounting parts		
1 Bolt	91103-06025	1
2 Plane washer	102-28323-00	1
3 Collar	214-21633-00	1
4 Damper	214-21717-00	1
5 Spring washer	92901-06100	1
6 Nut	98801-06200	1
7 Bolt	168-21738-00	2
8 Plane washer	92901-08200	2
9 Damper	214-84553-02	1
10 Spring washer	92901-06100	2
11 Nut	98801-06200	2



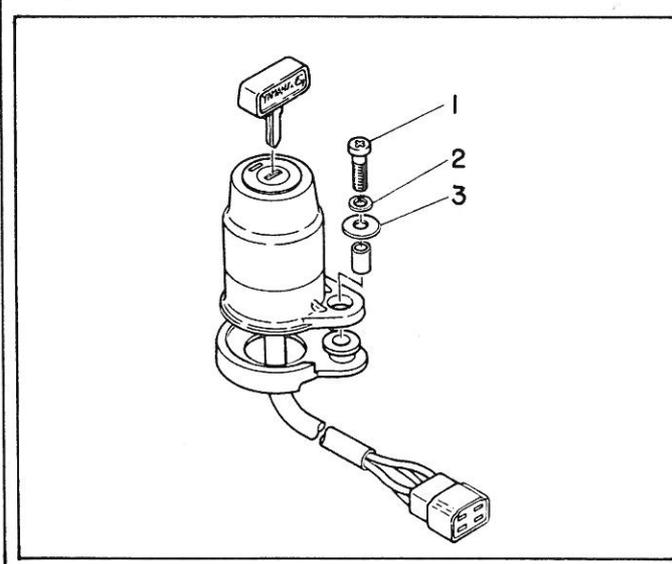
- |                 |             |   |
|-----------------|-------------|---|
| 1 Bolt          | 91101-06025 | 2 |
| 2 Spring washer | 92901-06100 | 2 |



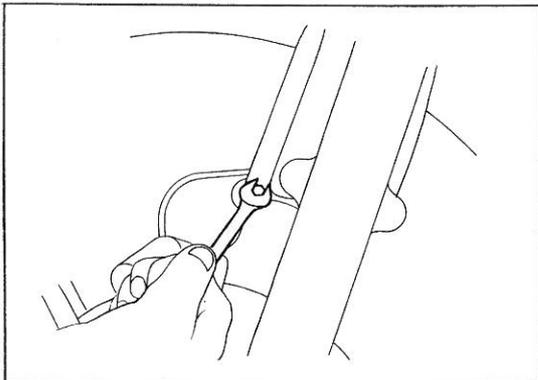
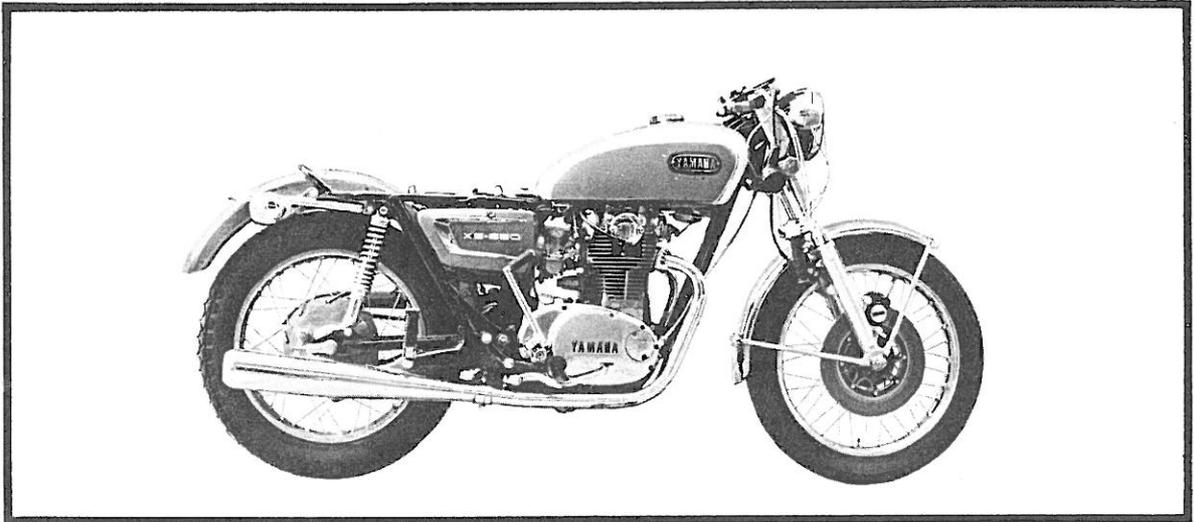
- |                 |             |   |
|-----------------|-------------|---|
| 1 Plain washer  | 92901-08200 | 1 |
| 2 Nut           | 98803-08100 | 1 |
| 3 Spring washer | 92901-08100 | 1 |



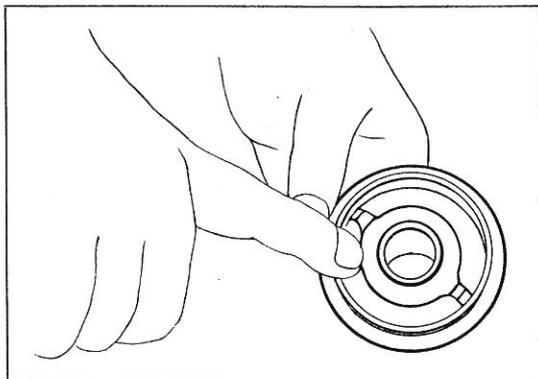
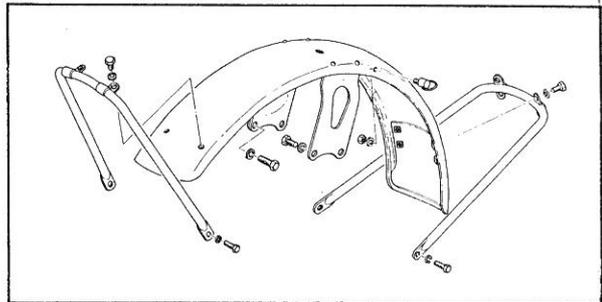
- |                  |              |   |
|------------------|--------------|---|
| 1 Screw          | 98503-05020  | 2 |
| 2 Spring washer  | 92901-05100  | 2 |
| 3 Special washer | 256-82517-00 | 2 |



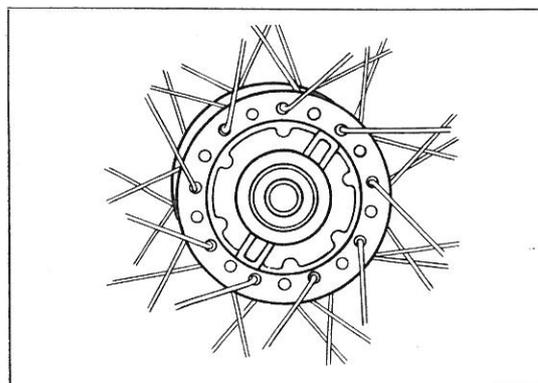
## FRONT FENDER FRONT WHEEL



1 Install the front fender and wire holder.



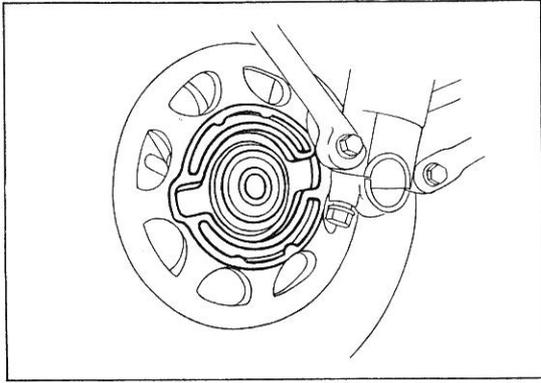
2 Lightly lubricate the speedometer drive gear and oil seal with grease.



3 For front wheel installation, position the clutch hub to match to the disc stopper grooves (□) over the matching metal projection on hub clutch outer tube. Install the axle from the right side.

Important note:

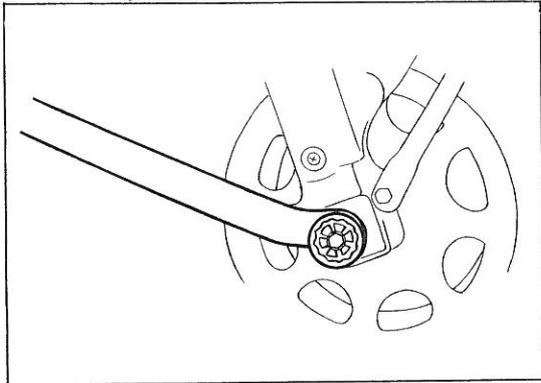
Be sure to install the wheel collar, the right side of the hub.



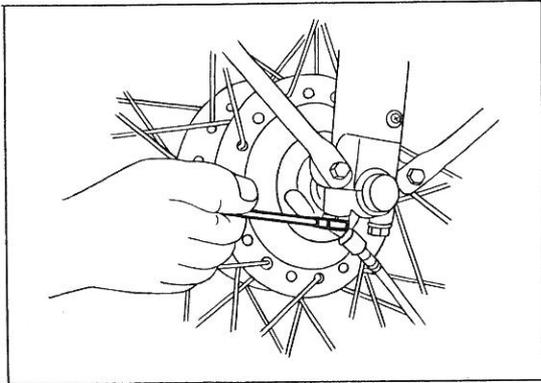
4 Tighten the axle nut.

Note:

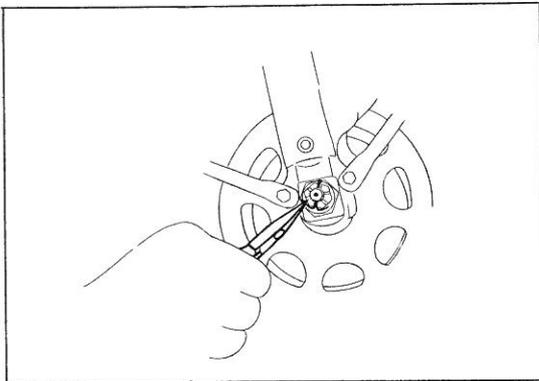
Up mark of the housing should be positioned to top.



5 Tighten the axle pinch bolt on left hand outer fork leg after tightening the axle nut.

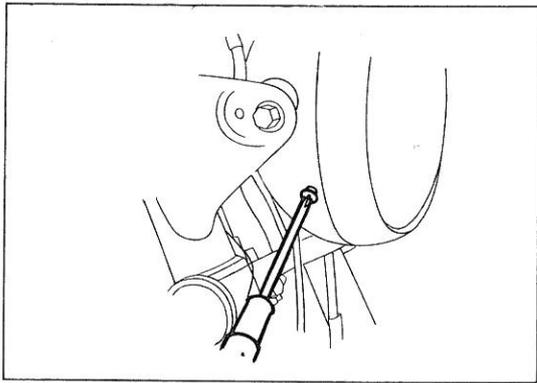
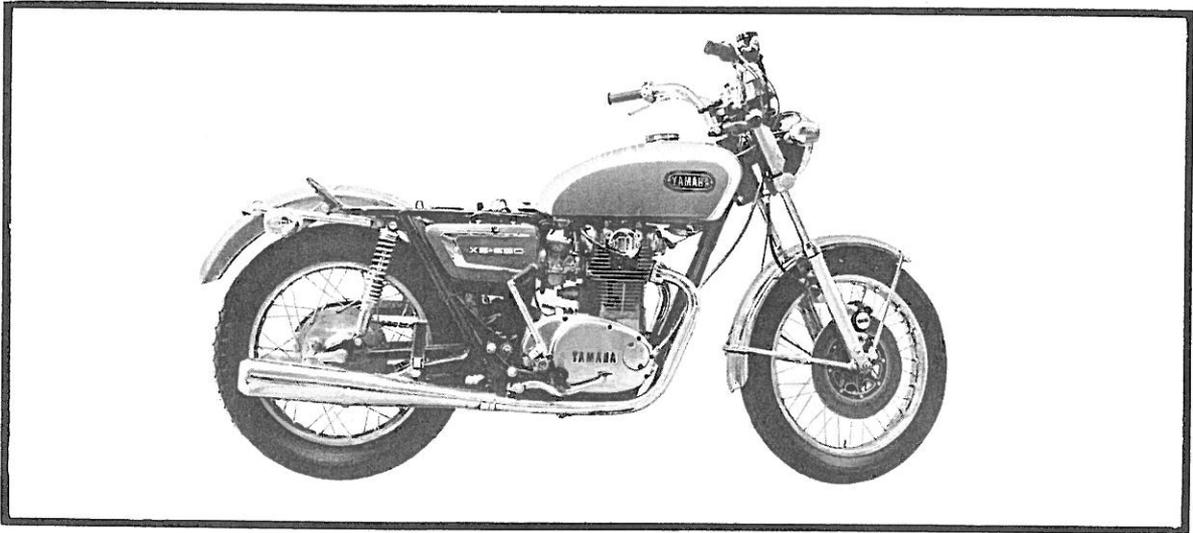


6 Retighten the axle nut correctly.

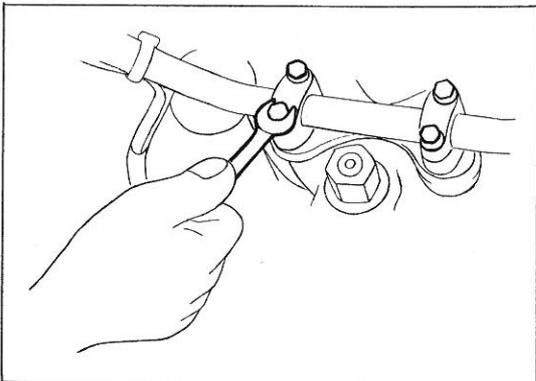


7 Fully bent the cotter pin.

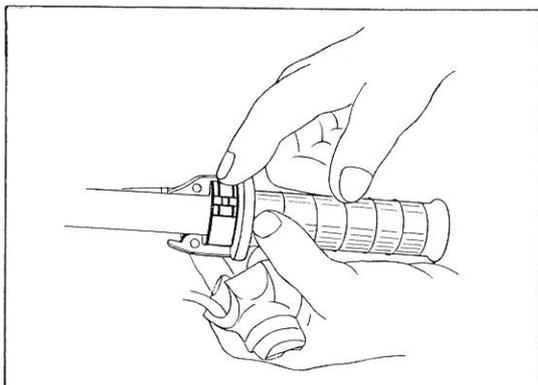
## SPEEDOMETER TACHOMETER HANDLEBAR STEERING DAMPER



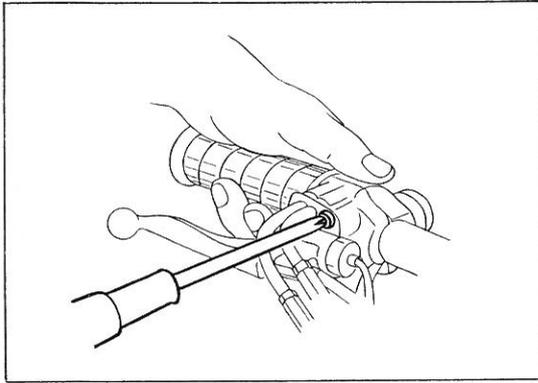
- 1 Remove the headlight lens.  
(Two Phillips head anchor screws on lower side of headlight.)



- 2 Install the handle bar.
  - a Remove the handle upper holder.
  - b Install the handle bar.
  - c Make sure the lock washers on the securing bolts are in the place and the bolts are evenly torqued in gradual stages and in a cross pattern.



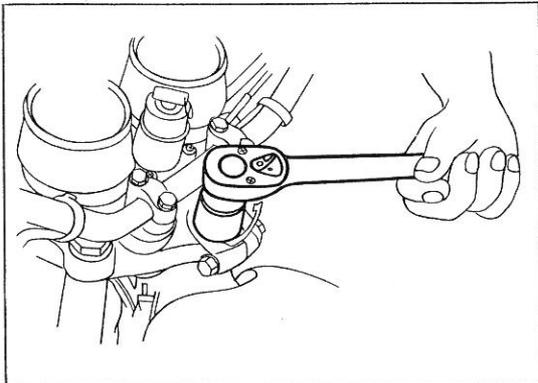
- 3 Split the handle lever holder(R) and remove the accelerator grip.  
Apply a light coating of grease (such as Shell Lithall MDS) to the right handlebar end and throttle grip housing.



- 4 Install the throttle cable end in the housing and slide the grip on to the bar.

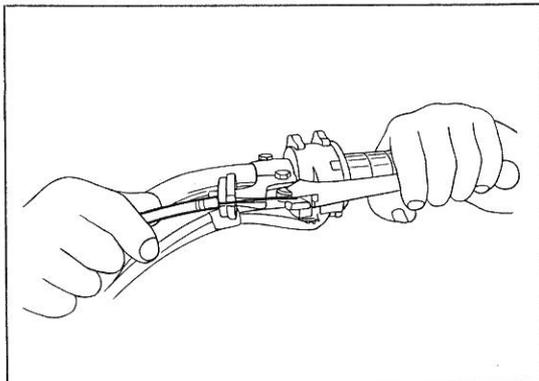
Push the grip onto the bar until the handlebar end butts against the throttle grip.

Pull the grip back approximately  $\frac{1}{4}$ " and tighten down the throttle housing securing screws.



- 5 Remove the handle crown fitting nut and washer.

Install the damper spring, washer and retighten the nut correctly.



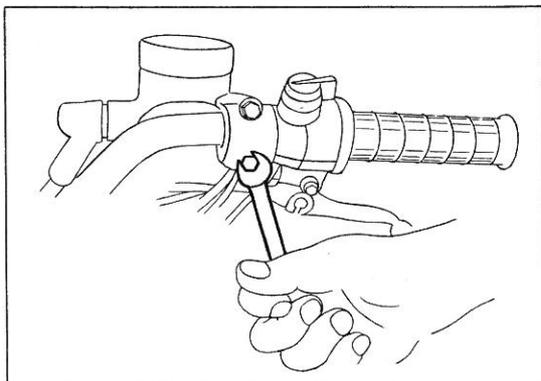
- 6 Turn the clutch cable length adjuster on the handle lever all the way in. Align all of the cable access slots. Insert the clutch cable end piece into its seat in the handle lever and place the cable ferrule against the length adjuster nut.

Squeeze in on the clutch lever while holding firmly onto the cable outer housing. (Actuates clutch and lengthens inner cable)

Release the clutch lever while simultaneously pulling back on the outer cable housing.

The cable ferrule will be pulled back and can now drop into its seat in the cable length adjuster.

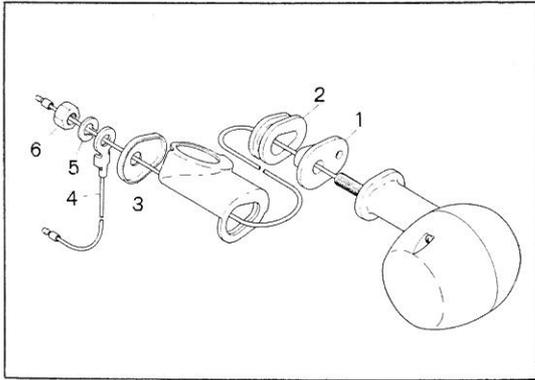
Adjust cable length according to the specifications in the model Service Manual.



- 7 Fully tighten the bolts of the master cylinder.

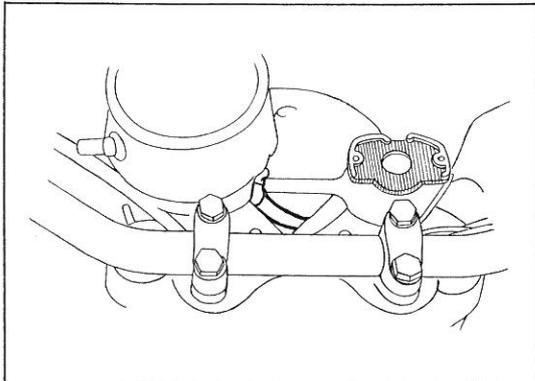
Note:

Keep the master cylinder in vertical position.



8 Install the front flasherlights.

Insert the flasher lead wires into the headlight thru the hole in the back, then connect them to the main wiring harness. For additional routing instruction, refer to the wire routing at the first of this chapter.

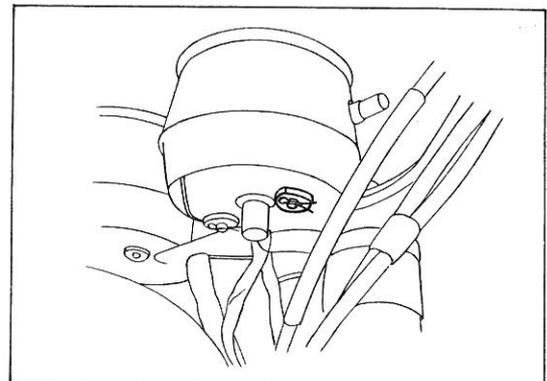
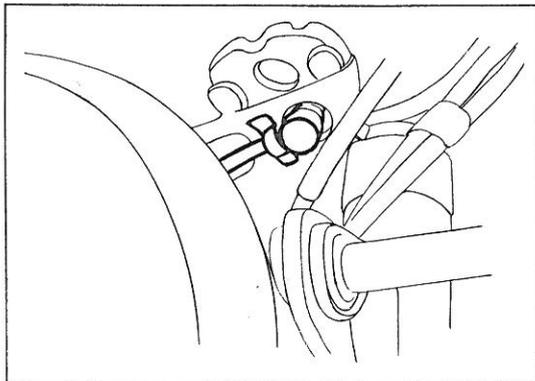


9 Mount the speedometer, tachometer, and main switch to the single rubbermounted bracket above the headlight shell.

The speedometer fits on the left-hand side, the tachometer on the right-hand side.

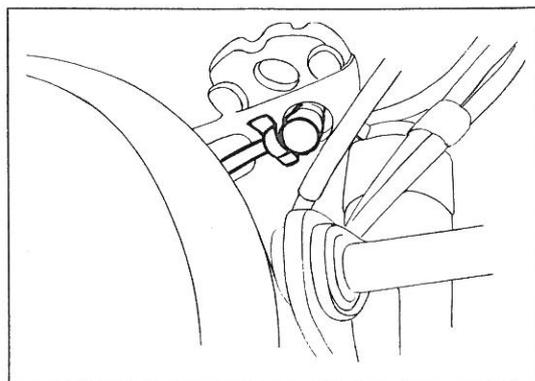
Two mounting rods attached to the bottom of each meter extend through a hole in the end of each rod hold the meters in place.

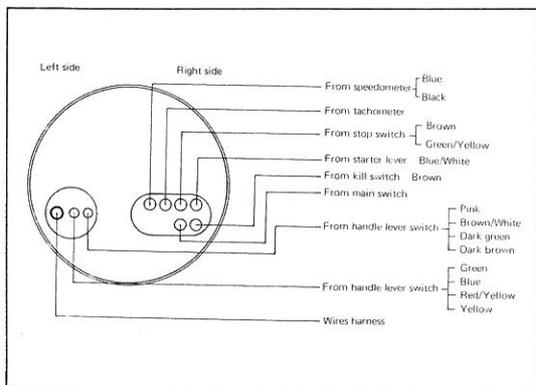
Check the lead wires routing according to the cable routing schematic in this set up manual.



10 The main switch fits places between speedometer and tachometer.

The main switch is held in place by two Phillips-head screws.





11 Lead wires from switches already mounted on the handlebar and front flasherlight must be run into the headlight thru the hole in back.

Connect these lead wires to main wiring harness wires, using color-codes as a guide.

If in doubt, refer to wire Routing section in the end of this manual.

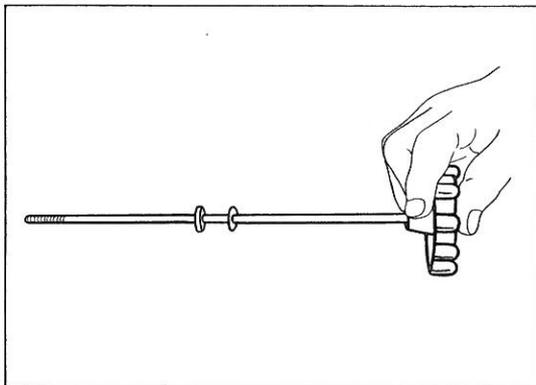
Note:

One flasher lead wire has a dark brown collar, the other has a dark green collar. Attach flasher with dark green collar to right side of the machine.

Install the tachometer and speedometer.

See Cable Routing section at the first of this chapter for proper position.

Wires from main switch must be connected under the fuel tank and clamp the lead wires at the wire holder.



12 Install the steering damper.

a) Slip the rubber washer and washer onto the rod.

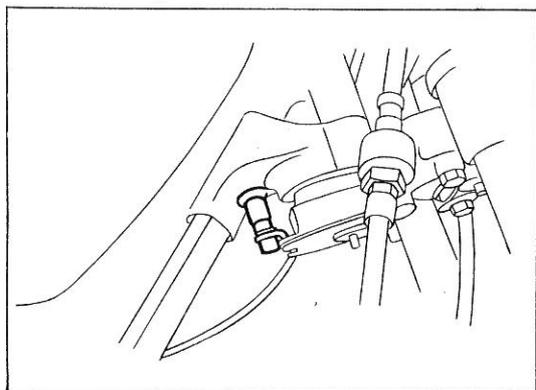
Insert the rod down through the underbracket tube.

b) Slip the splined dampener guide up through the bottom of the metal dampener plate, then place the fiber friction plate on top.

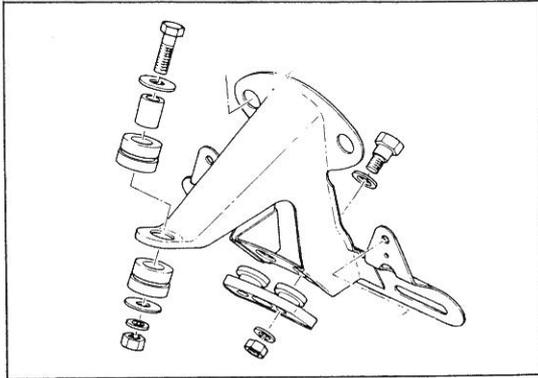
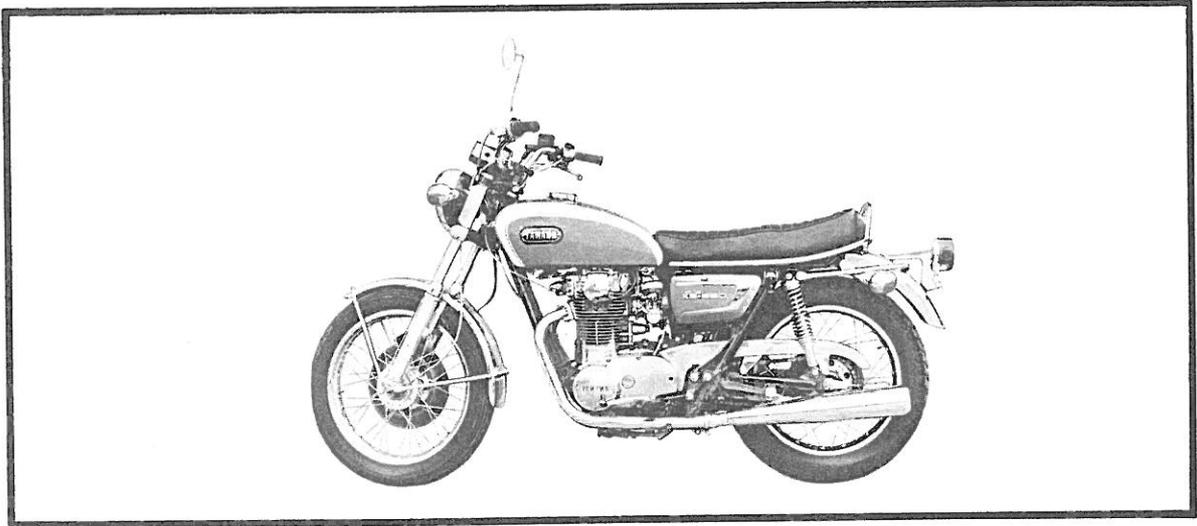
Slip the splined dampener guide into the splined hole in the bottom of the steering head. Make sure the pronged tab on the metal plate engages the locating pin.

Spin the dampener handle to thread the rod into the friction assembly.

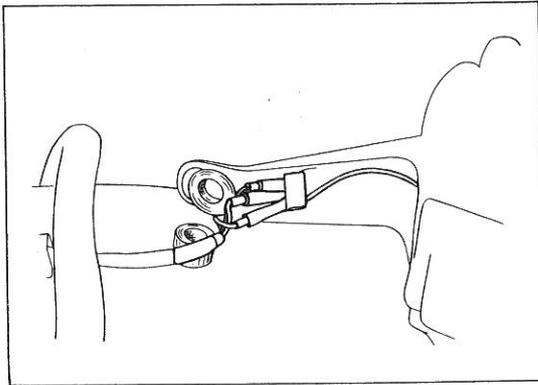
Be absolutely sure that the hairpin clip is installed through the hole in the rod end.



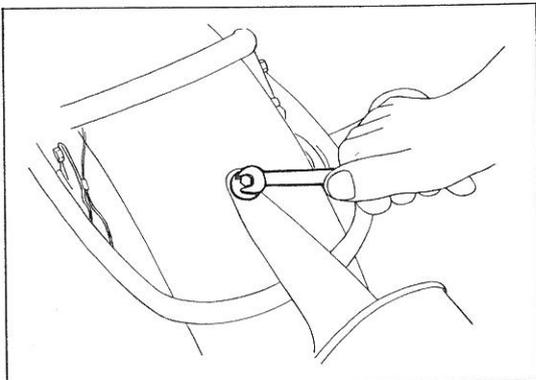
# TAILLIGHT SEAT FOOT REST CHANGE PEDAL BACK MIRROR



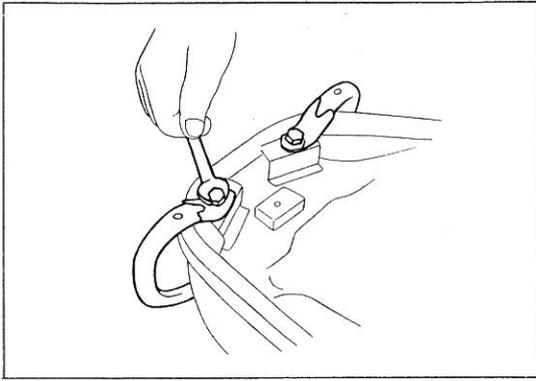
1. Install the damper rubber, and license bracket collar on the license bracket.



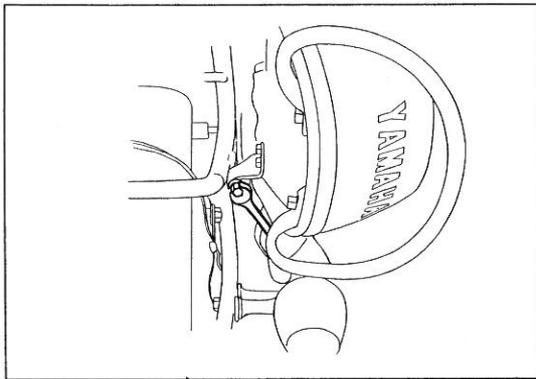
2. Connect the lead wires.  
Be sure to carefully secure the lead wires with the hooks.



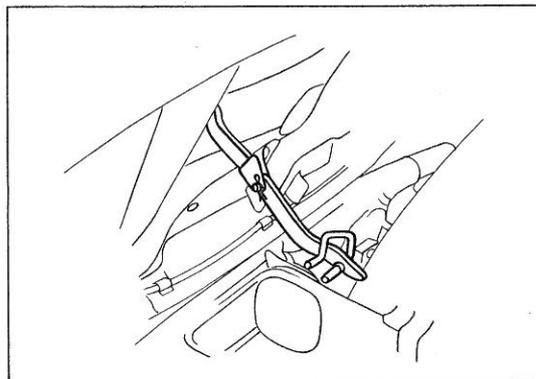
3. Place the damper between the taillight ass'y and the rear fender, and bolt the taillight ass'y to the fender.



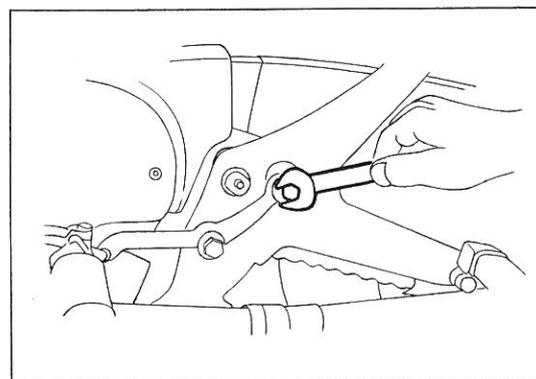
- 4 Install the seat handle to the rear of the seat.  
Be sure that you put plain washers, lock washers on both retaining bolts.



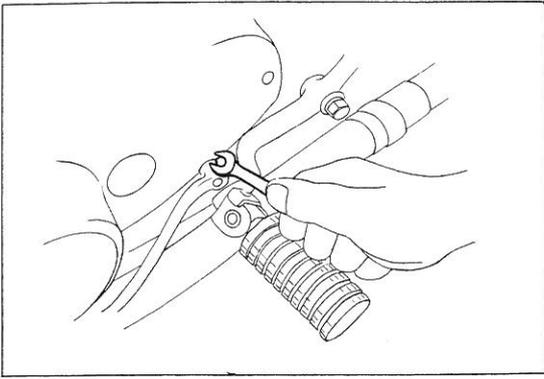
- 5 Install the seat
- a) Two pins on the bottom edge of the seat, which act as hinges, must be slipped into the respective holders on the frame.
  - b) The back pin is threaded.  
Install and tighten the lock washer and lock nut.



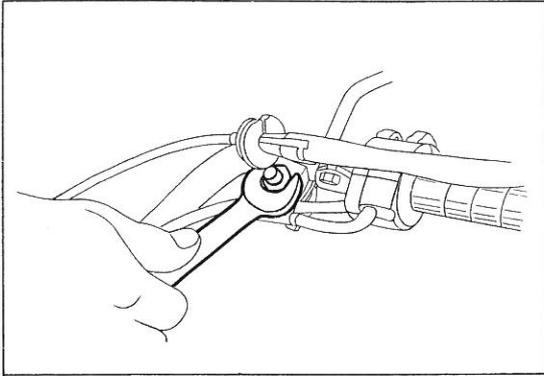
- 6 c) Install the seat brace (hook).



- 7 Attach the foot rest.  
Install and tighten the flat washers spring washers and lock nuts.



8 Install the change pedal and tighten the pinch bolt.



9 Install the back mirror.

