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YAMAHA

RD-350

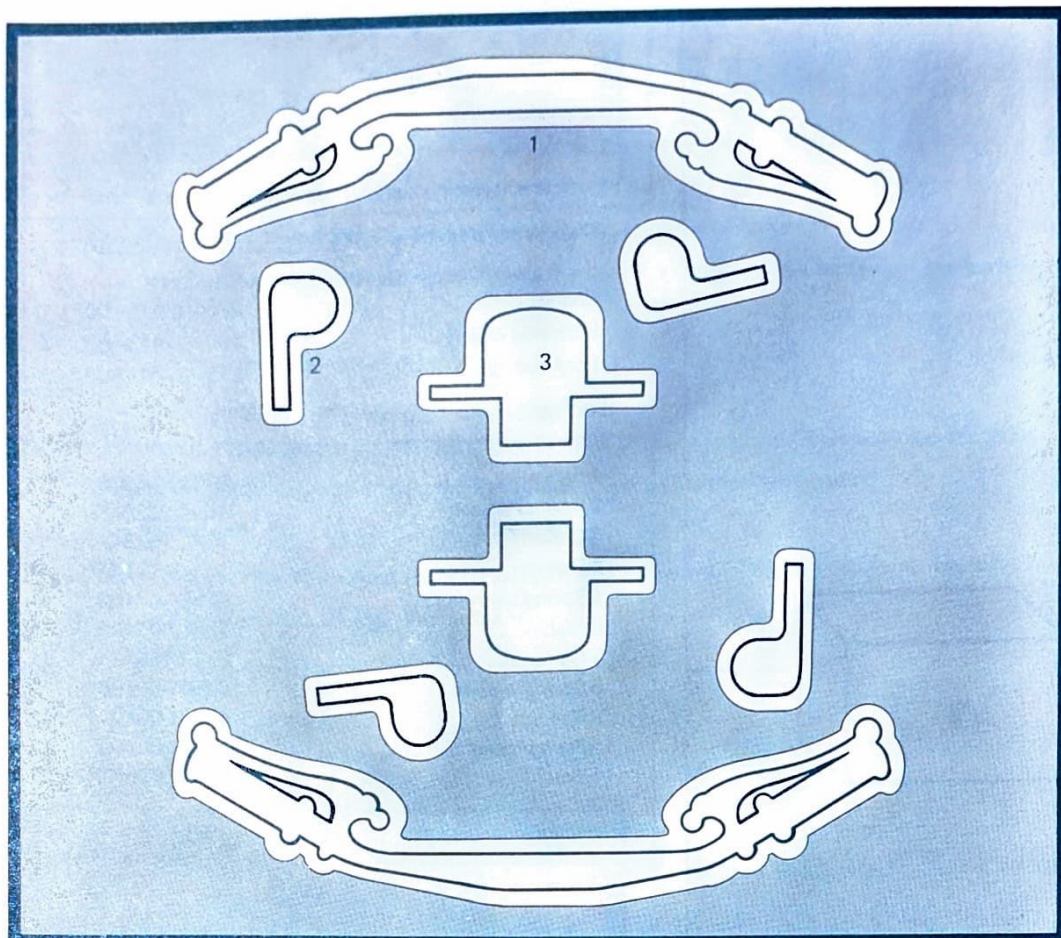
ASSEMBLY MANUAL

YAMAHA MOTOR CO., LTD.

ASSEMBLY

The RD 350 come in a card board crate.

Check the box per previous instructions and, if any items are damaged or missing, replace immediatly.

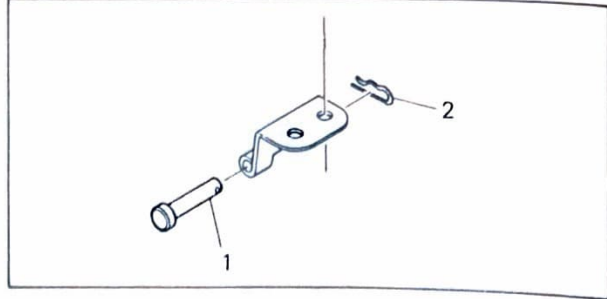


- 1 Handlebar ass'y
- 2 Front flasherlight ass'y
- 3 Taillight ass'y

INSTALLING COMPONENT

Seat mounting parts

1 Clevis pin	91501-05055	2
2 Clip	156-83525-00	2

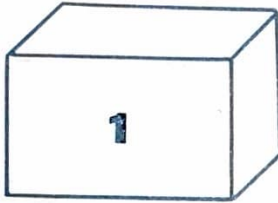
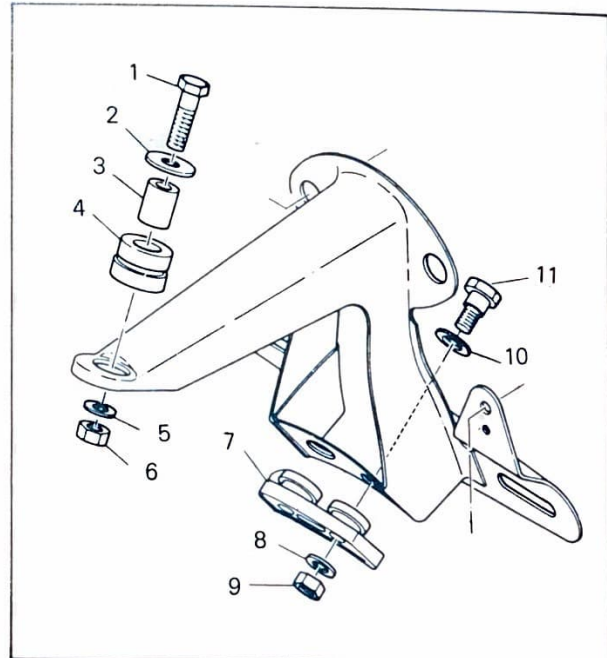


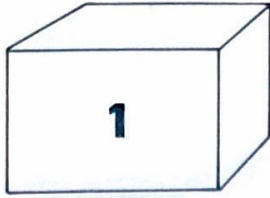
Change pedal holding bolt	91101-06020	1
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Change pedal	278-18111-00	1
Foot rest cover	156-27413-00	2
Foot rest	278-27411-00	2

Taillight mounting parts

1 Bolt	91203-06025	1
2 Special 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	98801-06100	1
7 Damper	214-84553-01	1
8 Spring washer	92901-06100	2
9 Nut	98801-06100	2
10 Plain washer	92901-08200	2
11 Bolt	168-21738-00	2

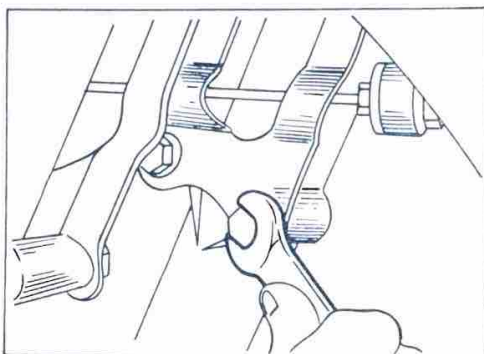
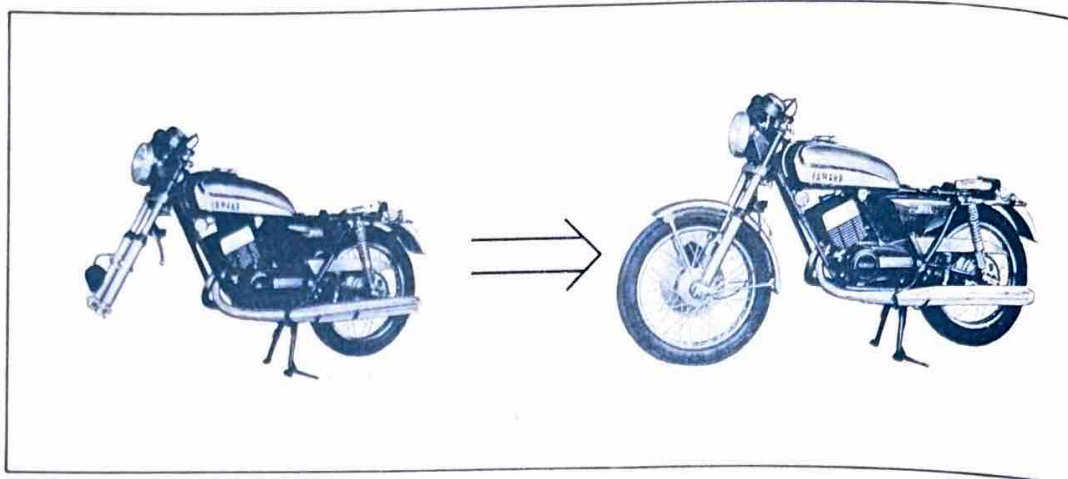




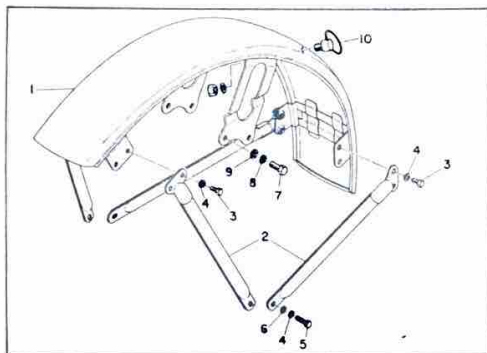
Foot rest bolt	172-27416-00	2
Nut	98801-08300	2
Breather pipe	168-82112-00	1
Back mirror	253-26290-00	1
Tool		1 set
Owner's manual	360-28199-10	1
Battery lead wire +	278-82115-00	1
" -	170-84756-00	1

1.
 - a. Untie the rope that secures the front fender to the rear wheel.
 - b. Remove the fender, upwrap it, inspect and set aside.
 - c. Repeat this procedure with the front wheel ass'y, attached to forks.
2.
 - a. Remove the front and rear wheel fittings holding the chassis to the bottom of the packing case.
 - b. Lift the motorcycle from the case.
 - c. Prop up the main stand.
 - d. Place suitable support under the engine in front of the main stand. This will keep the front of the machine elevated while the front fender and front wheel are installed.
3.
 - a. Remove the fuel pipe fittings at the fuel tank petcocks.
 - b. Raise the rear of the tank up, slide it back, and remove it. This will facilitate future wire and cable routing. Set the tank aside.

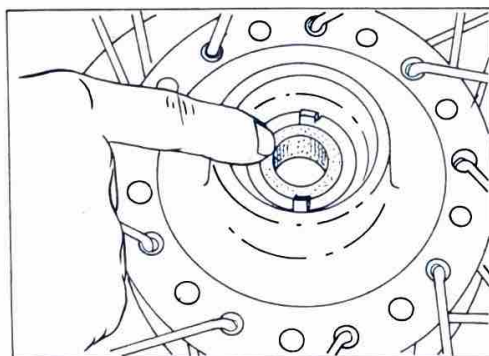
FRONT FENDER, FRONT-WHEEL



1. a) Rotate the steering head to full lock.
- b) Insert the fender from the rear, between the forks.
- c) Tighten the fender securely to the lower fork legs.
- d) Install the front fender stays.

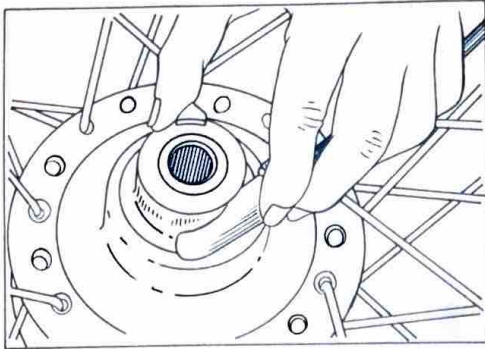


Front fender comp.	351-21510-00	1
2. Stay fender	351-21513-00	4
3. Bolt	91103-06012	8
4. Washer spring	92903-06100	12
5. Bolt	91103-06015	4
6. Washer plain	92903-06200	4
7. Bolt	97101-08018	4
8. Washer spring	92901-08100	4
9. Washer plain	92901-08200	4
10. Holder wire	174-21518-00	1

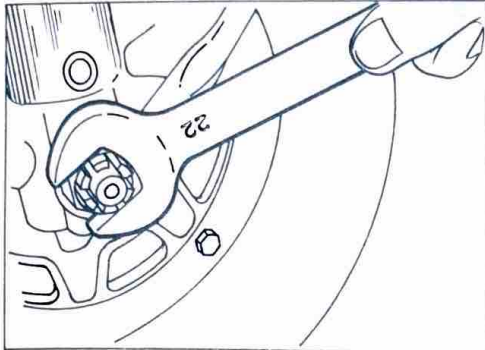


2. a) Lightly grease the lips of the front wheel oil seals.
- b) Lightly grease the gear teeth of the speedometer drive and driven gears.

USE LIGHT-WEIGHT LITHIUM SOAP BASE GREASE



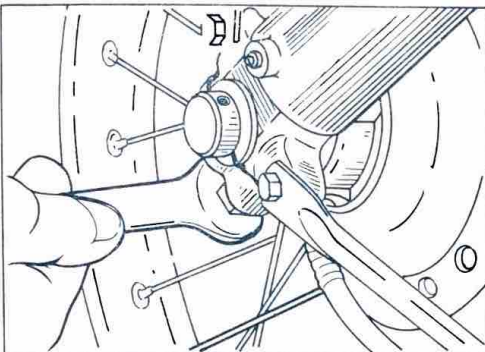
3. a) Install the speedometer gear housing into the front hub.
- b) Insert the front wheel assembly between the fork tubes.
- c) Position the oblong projection on the speedometer housing within the slot provided on the inside of the lower left fork leg.
- d) Insert the axle. Take care not to dislodge the oil seal dust cover.
Keep the cotter pin locating hole vertical.



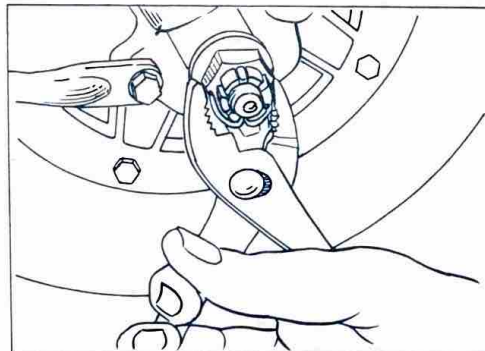
4. a) Install the axle nut on the shaft, in that order.
- b) Tighten the axle nut.

Tightening torque

kg-m	ft-lbs	ln-lbs
6	45	540



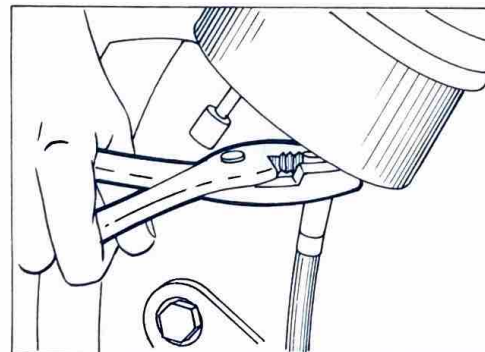
- c) Tighten the axle lock nuts on the outer fork leg (L).



- d) Using a torque wrench, tighten the axle nut.
5. a) Install cotter pin. If the costellated edges of the nut and the hole in the axle shaft do not line up, the nut may be backed off slightly.
- b) Bend the cotter pin ends away from each other and around the axle nut. Cut off the excess.

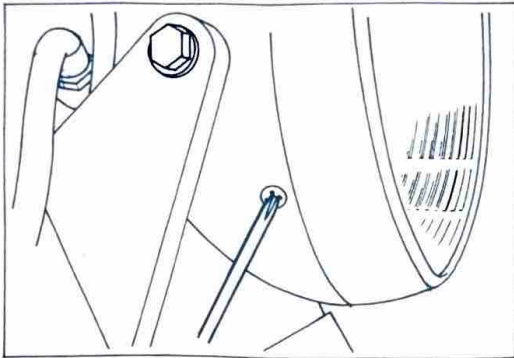
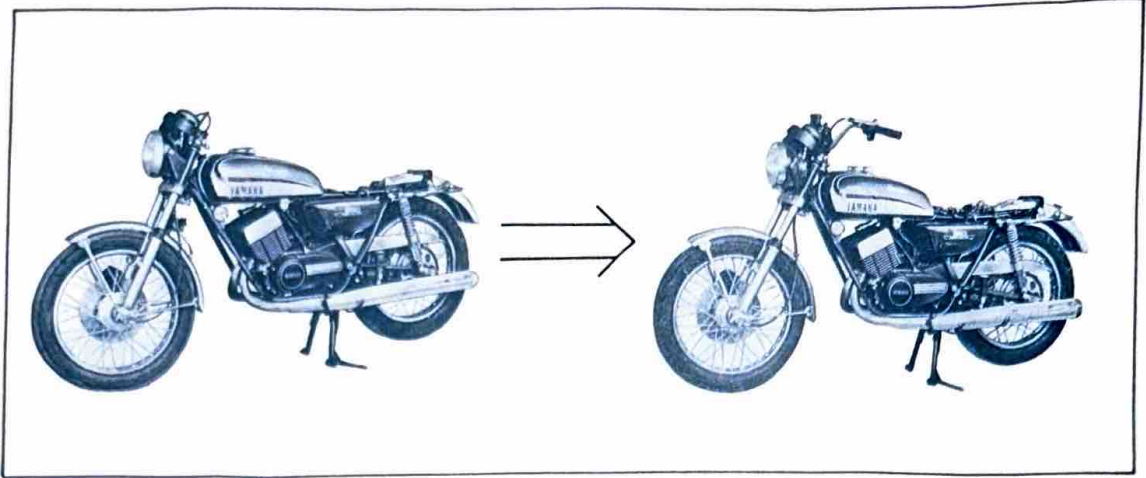
NOTE

The cotter pin should be installed with the open ends pointing down, prior to bending the ends apart.

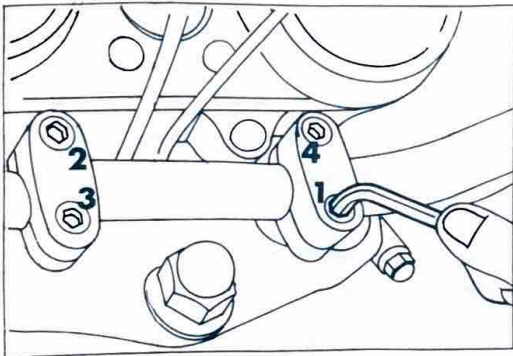


6. Route the speedometer cable through the access holes provided and attach it to the speedometer.

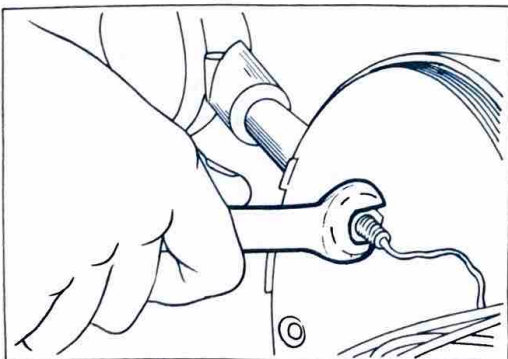
HANDLEBAR, FRONT FLASHERLIGHT



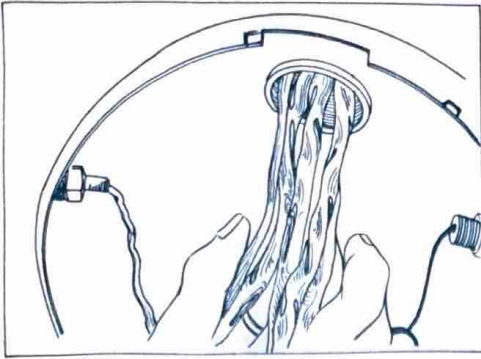
1. a) Remove the Philips head anchor screws from the lower half of the headlight shell.
b) Remove the headlight and rim ass'y. Set aside.



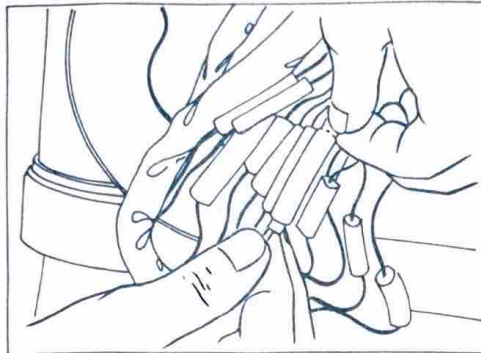
2. a) Remove the handle for holder allen securing bolts.
b) Remove the holders and install the handlebars.
c) Re-install the holder, securing bolts in that order.
d) Torque the allen securing bolts in gradual stages using a "cross-hatch" pattern.
e) Install the bolt cap.



3. Install the flasher lights.



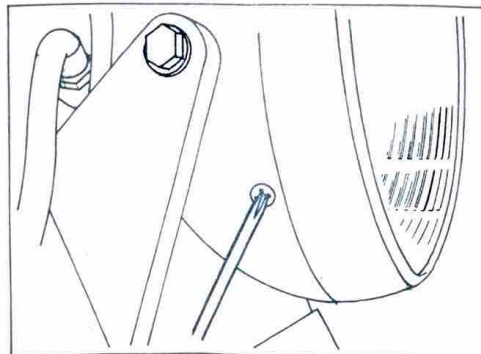
4. Bring the lead wires into the headlight ass'y and connect the lead wires.



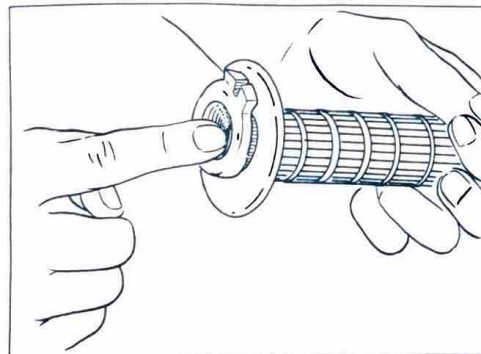
5. Follow the drawing, right, for correct connections. Additionally, for schematic representation and color code chart refer fo wire routing section.

NOTE

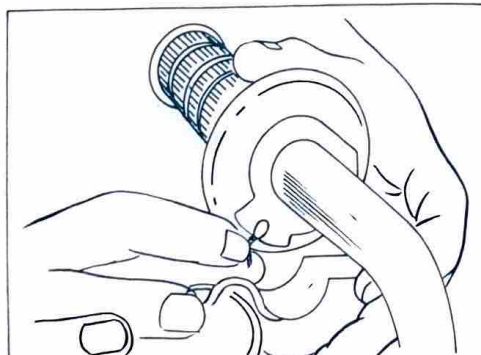
Flasher light lead wire (R) Dark green
Flasher light lead wire (L) Dark brown



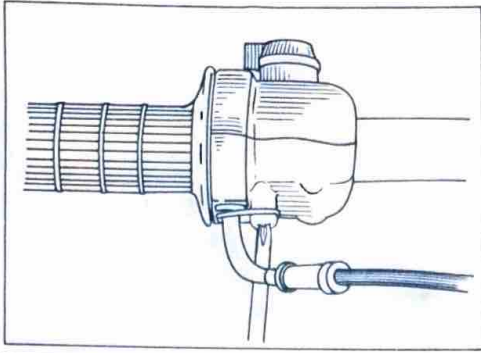
6. Install the headlight lens.



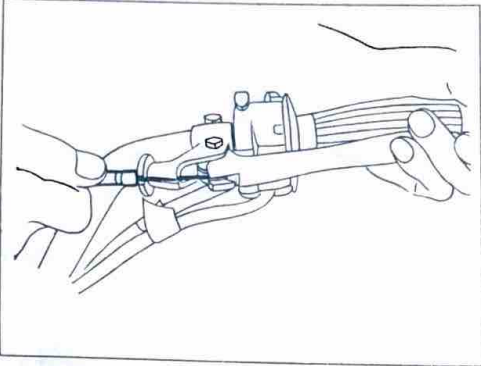
7. Apply a light coating of grease to throttle grip housing.



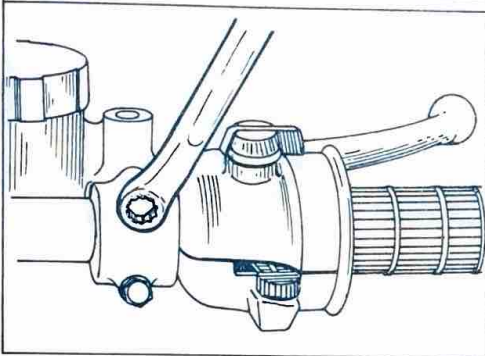
8. Install the accelerator wire with grip under cap and insert the wire end piece into its seat in the accelerator grip.



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

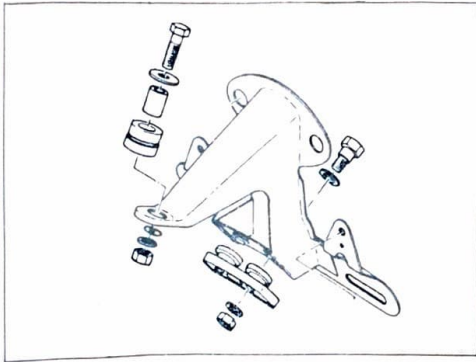
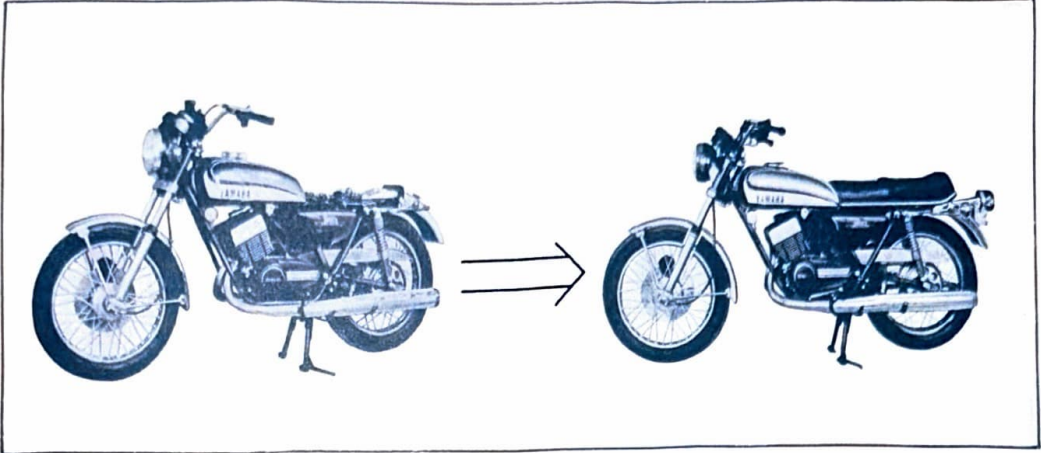


10. Install the clutch cable.
Turn the clutch cable length adjuster on the handle lever all the way in. Align all of the cable access slots. Insert the clutch cable end piece into its seat in the clutch lever and place the cable ferrule against the length adjuster nut. Squeeze in on the clutch lever while holding firmly onto the cable outer housing. (Actuates Clutch and lengthens inner cable)



- 11.a) Install the master cylinder brake lever assembly on the right handle lever. Make sure the master cylinder reservoir is in a level position.
b) Tighten the securing bolts evenly and in stages.

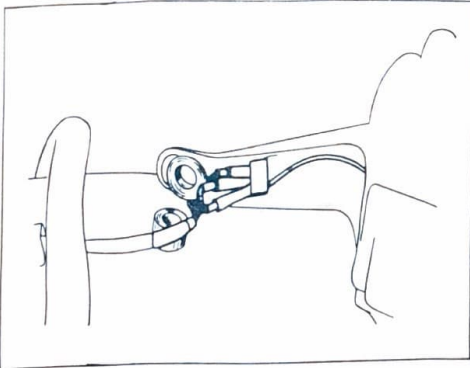
TAILLIGHT, SEAT, CHANGE PEDAL, FOOTREST, BACK MIRROR



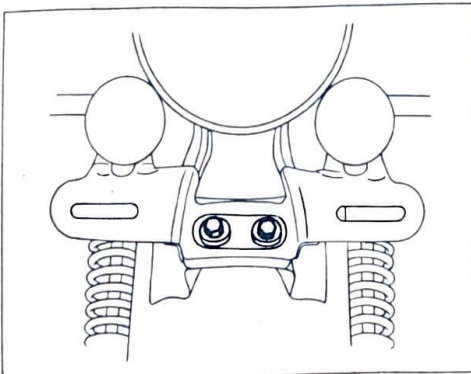
1. Install the rear flasher light, and connect the lead wires.
2. Install the damper rubber, and license bracket collar on the license bracket.

NOTE

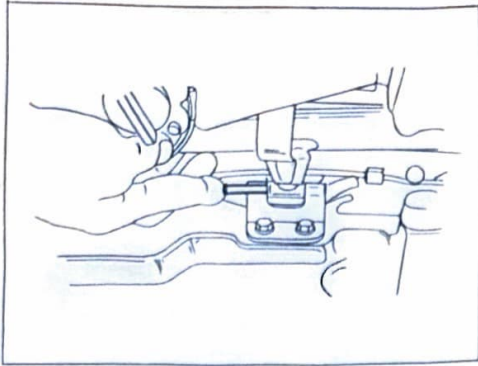
Flasher light lead wire (R) Dark green
Flasher light lead wire (L) Dark brown



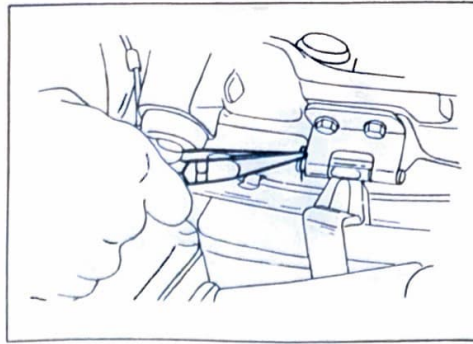
3. Connect the lead wires.
Be sure to carefully secure the lead wires with the hooks.



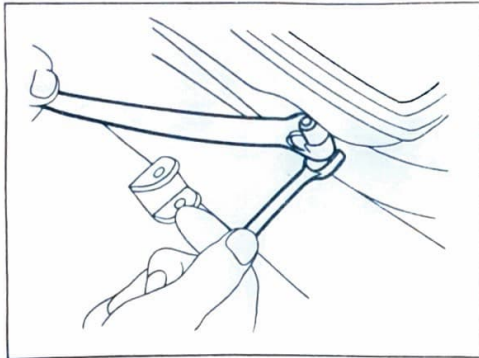
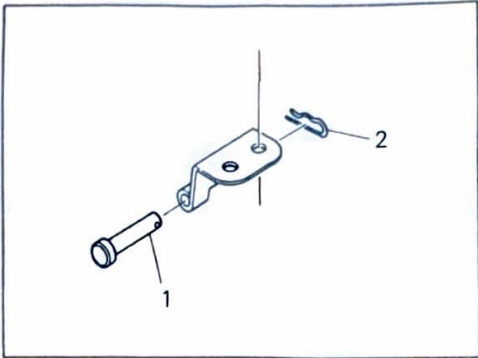
4. Place the damper between the taillight ass'y and the rear fender, and bolt the taillight ass'y to the fender.



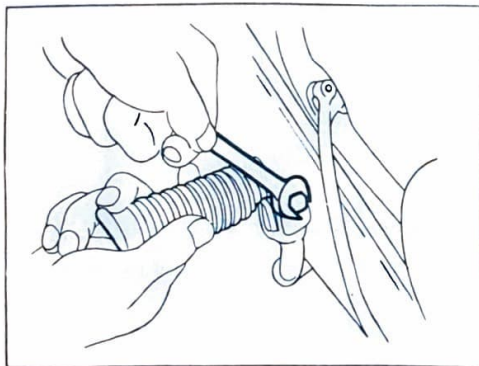
5. Install the seat.



1 Clevis pin
2 Clip



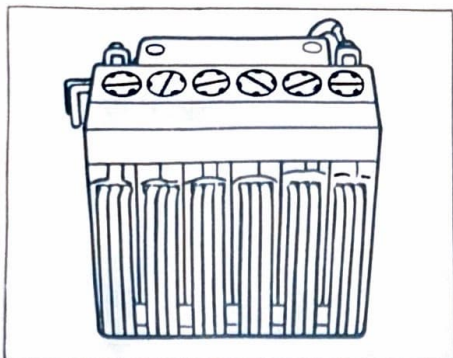
6. Install the change pedal.



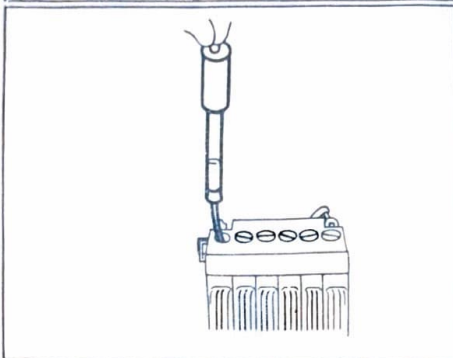
7. Install the footrest ass'y.

8. Install the backmirror.

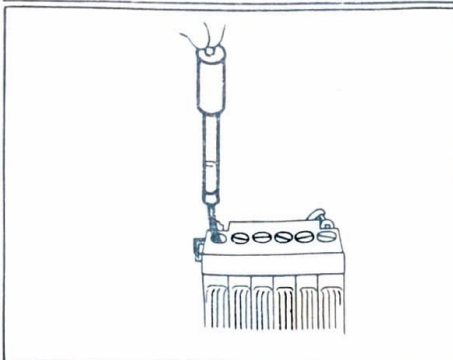
BATTERY



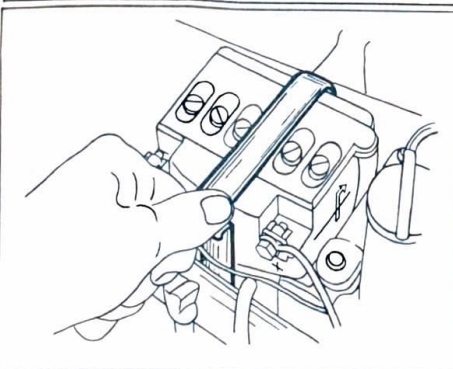
1. Remove the vent tube and filler caps.
Blow gently through the vent and vent tube to make sure proper venting is taking place.



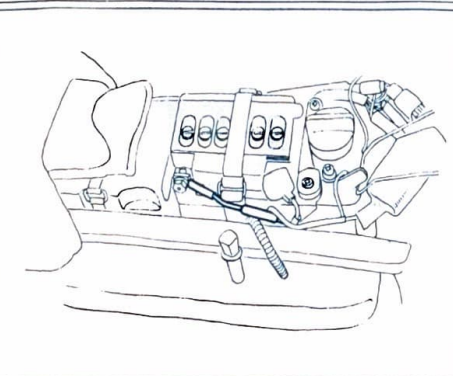
2. Fill each cell to the top level line with fresh electrolyte.



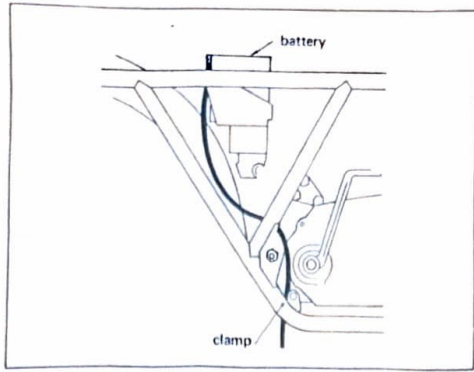
3. Charge the battery at – A (MAX.) until specific gravity is 1,260–1,280.



4. Install the battery in the frame, and connect the lead wires.

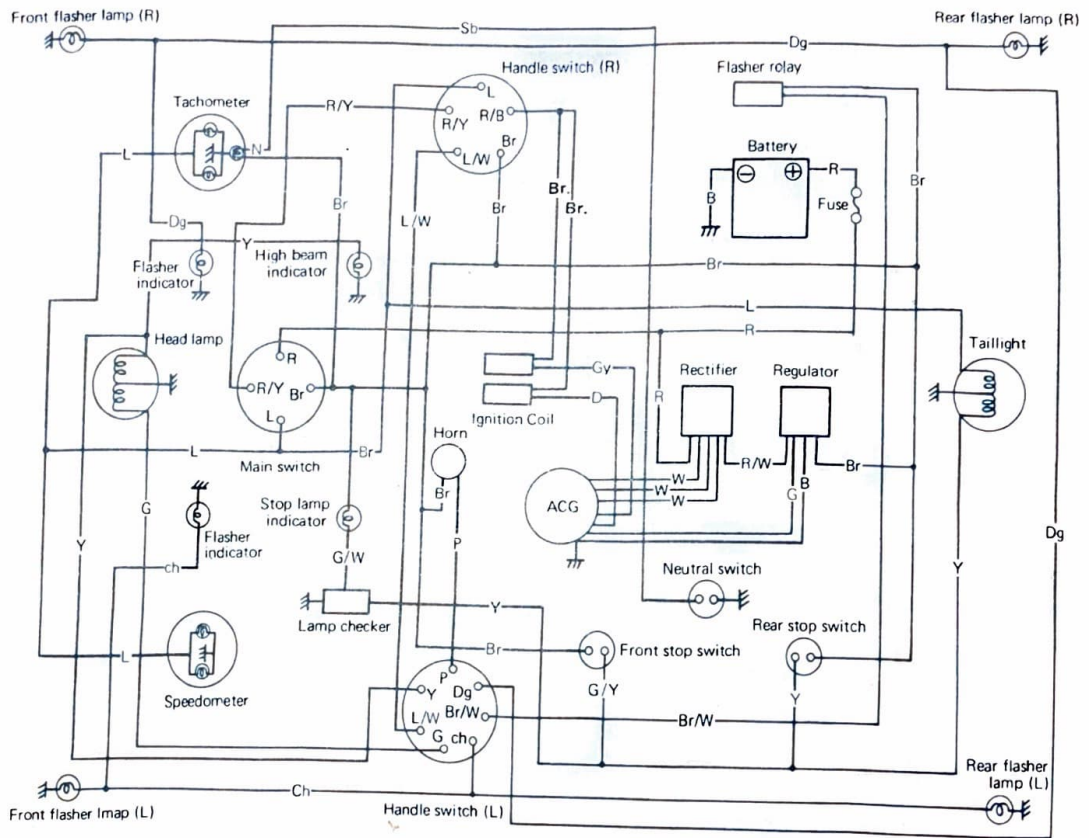


5. Make sure the battery ground (–).
Strap is contacting clean, low metal at the frame mounting point.



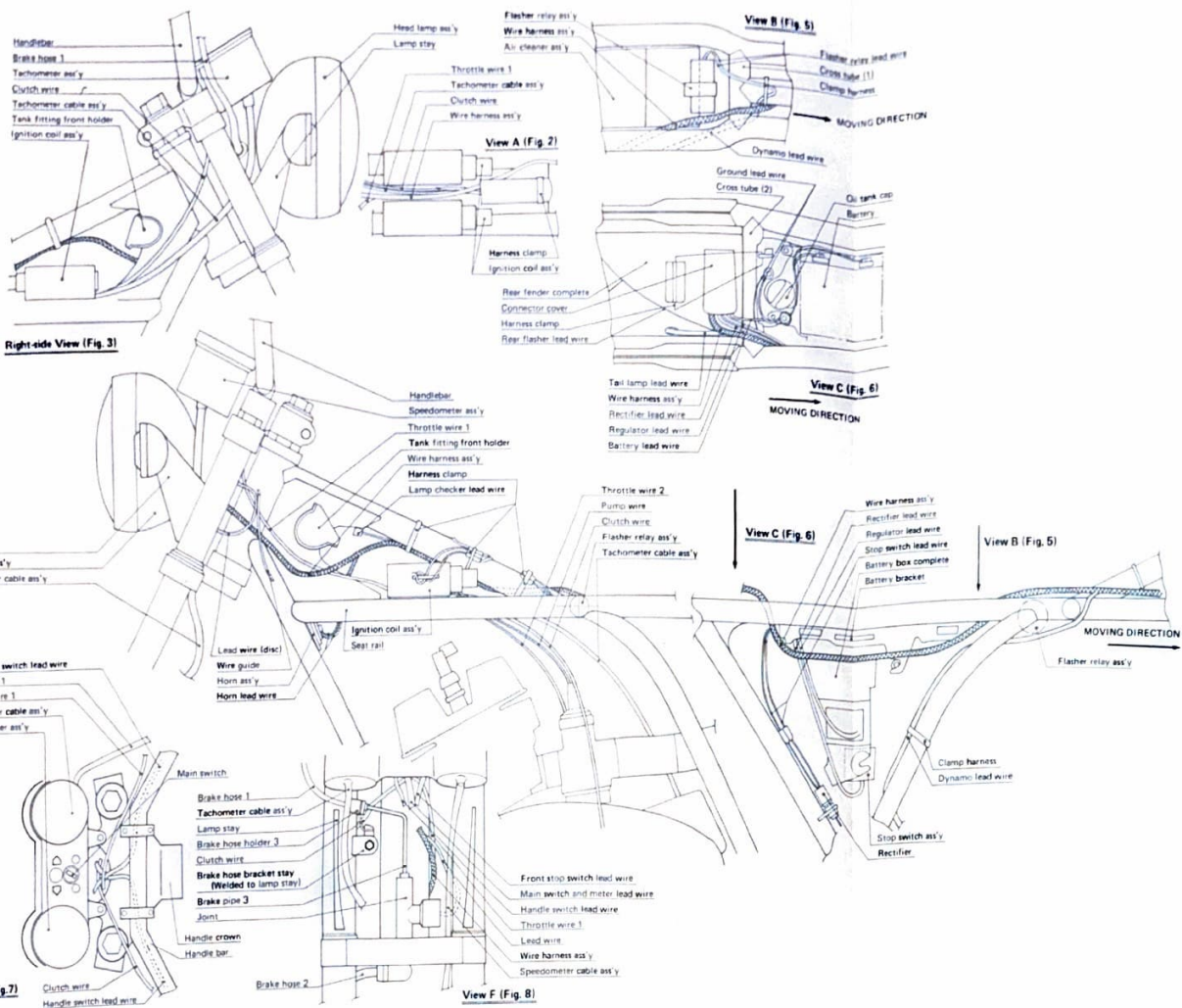
6. How to layout battery breather pipe.
Pass breather pipe along inside of frame as illustrated.

Wiring Diagram



Wire color code

S. b.	Sky blue	G/W	Green/White
D. g.	Dark green	P.	Pink
R/Y	Red/Yellow	Br/W	Brown/White
L.	Blue	B.	Black
O.	Orange	W.	White
Br.	Brown	R.	Red
L/W	Blue/White	G/Y	Green/Yellow
Y.	Yellow	R/W	Red/White
G.	Green	Gy.	Gray
ch.	Dark brown		



WIRING PROCEDURE OF WIRE HARNESS ASS'Y

1. Wire harness ass'y — Head lamp ass'y — Under throttle wire — Right side of head pipe — Inside of wire guide — Outside of throttle wire — Above the center of ignition coil bracket — Right side of upper member — Above frame cross pipe (1) — Inside of seat rail (right side) — Lower right of box complete — Under seat rail (right) — Outside of battery bracket — Inside of seat rail (right) — Above cross tube (2) — Right side of cross tube (2) — and hold the connector cover above rear fender by using harness clamp. (Figs. 1, 2, 4, 5 and 8)
2. Handle switch lead wire — Left side of handlebar — Pass through handlebar pipe — Above handle crown — Inside of meter bracket mounting boss (under throttle wire 1 and front stop switch lead wire, and above clutch wire) — Head lamp ass'y (Figs. 7 and 8)
3. Light switch lead wire — Right side of handlebar — Pass through handlebar pipe — Inside of meter bracket mounting boss (under throttle wire 1, and above clutch wire and handle switch lead wire) — Head lamp ass'y (Figs. 7 and 8)
4. Horn lead wire — Wire harness ass'y — Connect to horn lead wire (Fig. 1)
5. Ignition coil lead wire — Clamp to wire harness ass'y on upper member — Connect to ignition coil lead wire
6. Dynamo lead wire — Under cross pipe (1) — Thread through right side seat pillar tube and rear side of seat pillar tube — Clamp with harness clamp — Thread through side cover bracket — Connect to connector (Figs. 4 and 5)
7. Flasher relay lead wire — Right side of upper member — Clamp on upper member — Upper left of cross pipe (1) — Flasher relay ass'y (Fig. 5)
8. Regulator lead wire — Connector cover — Above cross tube (2) — Under the right side seat rail and inside of battery bracket — Clamp at holder on the right side of battery box complete — Regulator (Figs. 4 and 6)
9. Rectifier lead wire — Connector cover — Above cross tube (2) — Under the right side seat rail and inside of battery bracket — Clamp at holder on the right side of battery box complete — Rectifier (Figs. 4 and 6)
10. Battery lead wire — Connector cover — Above cross tube (2) — Connect to top of battery box complete by means of screw — Thread through between battery box and oil tank cap (Connect ground lead wire to the terminals on the wire harness ass'y battery lead wire side, and secure it with a screw on the right rear side of oil tank cap stay) (Fig. 6)
11. Tail lamp lead wire — Upper right of cross tube (2) — Insert into the hole on the right inner side of rear fender complete and clamp — Connect to tail lamp lead wire (Fig. 6)
12. Rear flasher lead wire — Upper right of cross tube (2) — Above rear fender complete — Connect to flasher lead wire (Fig. 6)
13. Main switch and meter lead wire — Meter ass'y — Pass through between handle switch lead wire and front switch lead wire — Head lamp ass'y
14. Stop switch lead wire — Right outer side of box complete — Connect to stop switch lead wire (Fig. 8)
15. Lamp checker lead wire — Clamp to wire harness ass'y under upper member — Connect to lamp checker lead wire (Fig. 1)
16. Wire lead — Joint — Right side of wire harness ass'y — Under steering lock — Head lamp ass'y (Fig. 1 and 8)

WIRING PROCEDURE

1. Speedometer cable ass'y — Left rear side of head lamp — Front side of lead wire — Right front side of underbracket — Front fender wire guide — Outside of front fender stay — Front hub (Figs. 1 and 8)
2. Tachometer cable ass'y — Right rear side of head lamp ass'y — Front side of brake hose holder — Upper right inside of under bracket — Right side of head pipe — Under tank fitting holder and under clutch wire — Center of ignition coil ass'y and above ignition coil bracket — Under cross tube (1) — Center of air cleaner joint rubber — Engine (Figs. 1, 2, 3 and 8)
3. Throttle wire 1 — Grip cap (right) — Between brake hose (1) and handlebar — Inside of meter bracket mounting boss (Above front stop switch lead wire and handle switch wire, and rear side of clutch wire) — Left side of head pipe — Above wire harness — Inside of wire guard — Under tank fitting holder — Under ignition coil bracket — Wire cylinder ass'y (Figs. 1, 2, 7 and 8)
4. Throttle wire — Wire cylinder ass'y — Under upper member — Carburetor ass'y (Fig. 1)
5. Pump wire — Wire cylinder ass'y — Right side of crankcase (Fig. 1)
6. Clutch wire — Clutch lever — Inside of meter bracket mounting boss (front side of throttle wire, under front stop switch lead wire and handle switch lead wire) — Right side of head pipe — Under tank fitting holder and above tachometer cable ass'y — Center of ignition coil ass'y, and above ignition coil bracket — Under cross tube (1) — Rear side of throttle wire (2) — Crankcase cover (right side) (Figs. 1, 2, 3, 7 and 8)
7. Brake hose and pipe — Master cylinder — Front side of throttle wire — Right side of tachometer cable ass'y — Upper right side of lamp stay — Brake hose holder 3 — Joint — Lower right side of underbracket — Right rear inside of front fork outer tube (brake hose holder 2) — Caliper (brake pipe 1) (Figs. 7 and 8)

