YAMAHA

YZ/IT SERIES
BASIC
ASSEMBLY MANUAL

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LIT-11666-03-31

BA1-28107-10

FOREWORD

This Basic assembly manual contains the information required for unpacking and assembling Yamaha machines. We hope that the person responsible for assembly will read this manual thoroughly and carefully so he will have a good understanding of the procedures described in this manual. By making full use of this manual, you can assemble the machine correctly and thus assure customer satisfaction.

NOTICE

This manual has been written by Yamaha Motor Company for use by Authorized Yamaha Dealers and their qualified mechanics. In light of this purpose it has been assumed that certain basic mechanical precepts and procedures inherent to our product are already known and understood by the dealer. Without such basic knowledge, incorrect assembly of one of the models listed within these pages could occur. This may render the machine unsafe.

The dealer is further advised to review the Service manual (Owner's manual) for the machine being assembled and acquaint himself with the servicing procedures for that machine.

The Research, Engineering, and Service Department of Yamaha are continually striving to further improve all models manufactured by the company. Modifications are therefore inevitable and changes in specifications or procedures mentioned within this manual will be forwarded to all Authorized Yamaha Dealers and will, where applicable, appear in future editions of this manual.

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

NOTE: A NOTE provides key information to make procedure 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.

YZ/IT SERIES BASIC ASSEMBLY MANUAL
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BASIC ASSEMBLY MANUAL INDEX

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1 INTRODUCTION

HOW TO USE THIS MANUAL

The Basic assembly manual contains instructions for assembling various components on YZ and IT series machines.

The Basic assembly manual should be used in conjunction with the Supplementary assembly manual.

When used together, these two manuals provide the information needed for proper assembly of a machine.

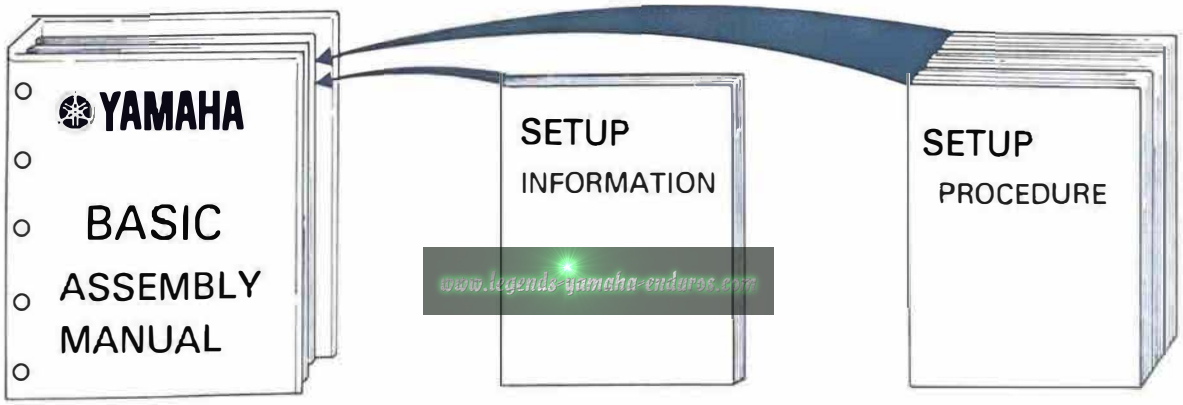
Each procedure in the Basic assembly manual is coded with a 3-letter code (abbrev.) that appears in the right-hand corner of the page. The Supplementary assembly manual tells you which procedures to perform when assembling a specific machine. The Supplementary manual also contains parts information and cable routing diagrams.

To assemble a machine, uncrate the unit as described in the Basic assembly manual. Read the Supplementary assembly manual carefully. Check the contents of the crate against the parts list in the Supplementary assembly manual.
Read both manuals, and proceed with assembly.

The Supplementary assembly manual gives you the codes of the procedures you should follow when assembling a unit.
Locate these coded procedures in the Basic assembly manual, and carefully follow the instructions. Follow the order given in the Supplementary assembly manual. Finish one procedure before beginning the next, and fill out a predelivery/setup sheet as you go along.

When you have completed the assembly, fill out the predelivery/setup sheet. Give the original copy to YMUS, the 2nd copy to the customer, and retain the 3rd copy in the dealer files.

Basic assembly manual



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- Handling of crates
- Preparations
- Setup procedures and information

- Setup descriptions are divided by sections.
- Predelivery service descriptions are divided by sections.

Supplementary assembly manual

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- Details of contained parts
- Tightening torque
- Reference of index
- Cable routing diagrams

2 SETUP AND PREDELIVERY CHECK

IMPORTANCE OF GOOD ASSEMBLY PRACTICE

In order to install the parts correctly and safely, you must follow the correct assembly order as given in this manual. To achieve this end, you must master the procedures given in this manual.

1. Learn how to install all parts
   Study how each part is installed. Read the Basic assembly manual and learn which areas require your attention.
2. Practice the operations
   Learning how to assemble a machine is useless if you cannot use what you have learned. Observe an experienced mechanic as he assembles a machine, and examine a machine that has been correctly assembled. Be extra careful when assembling your first unit. Proceed slowly and check your work.

USING THE SETUP/PREDELIVERY SHEET

The Setup/predelivery sheet presents an orderly approach to assembly. It alerts you to crate damaged parts and assures that each machine is correctly assembled.

Predelivery checks

The Basic assembly manual and Supplementary assembly manual cover all the items that should be installed, checked, and/or adjusted before the machine is delivered to its new owner. It is advisable to recheck the following items immediately prior to delivery.

1. Fittings
   Recheck the tightness of the following fittings. They should be torqued to the appropriate specifications.
   a. Axle nuts (Front and Rear) and cotter pins.
   b. Steering nut
   c. Fork clamp and inner tube securing bolts
   d. Engine mounting bolts
   e. Cylinder head nuts
   f. Rear swing arm pivot shaft nut
   g. Rear shock mounting nut and cotter pins.
   h. Handlebar mounting bolts

2. Adjustments
   Recheck the following items for correct adjustment and operation:
   a. Front and rear brakes
   b. Clutch
   c. Drive chain
   d. Throttle
   e. Air cleaner
   f. Tire pressure

3. Operation
   a. Check the transmission oil level.
   b. Start engine and check idle speed.

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4. Test ride
   Test ride the machine.
   a. Check transmission operation.
   b. Check engine for abnormal noises.
   c. Throughly check all operating controls.
   d. Check engine pick-up, high and low speed performance.
   e. After test, check spark plug coloration.

5. Clean up
   Clean the machine throughly after the test ride. If it is washed, do not allow the chain lubricant to be removed. Wipe the machine down with a clean rag. During the wipe down, check all compornents for nicks, scratches or other signs of damage.

6. Delivery
   When the machine is delivered to the new owner, make sure he is familiar with all the operating controls. Advise him of break-in procedures. Let him know if there are any service or operational problems peculiar to his locale that may require extra attention on his part.

Explanation of the sheet

While performing the above operations, fill out the Setup/Predelivery for by making the necessary entries.

The sequence of the service checklist items follows the recommended order for regular predelivery service procedures.

Blank spaces are included with certain service items for recording important information that serves as a check on the accuracy of the service and a reference point for future service.

All applicable services must be performed to assure maximum service life of the machine and customer satisfaction, (to meet EPA requirements), and to provide maximum product liability protection. Each service item should be checked off only after the work on the item has been completed.

Signature and date lines are provided for each person servicing the machine. An individual should sign for the areas for which he is responsible.

The customer checklist area is more important than ever now with the addition of emissions controls. It is important that the customer receive proper instructions relating to care, maintenance, and the importance of not tampering with these adjustments and controls.

PARTS ORDERING

The checklist is available at no charge from YPDI in pads of 50 set.

DESCRIPTION	PART NUMBER	PRICE
Dealer Set-Up and Pre-Delivery Checklist Tablets of 50 sets	LIT-11161-00-78	No Charge *

* Please order only the number of tablets you will need.

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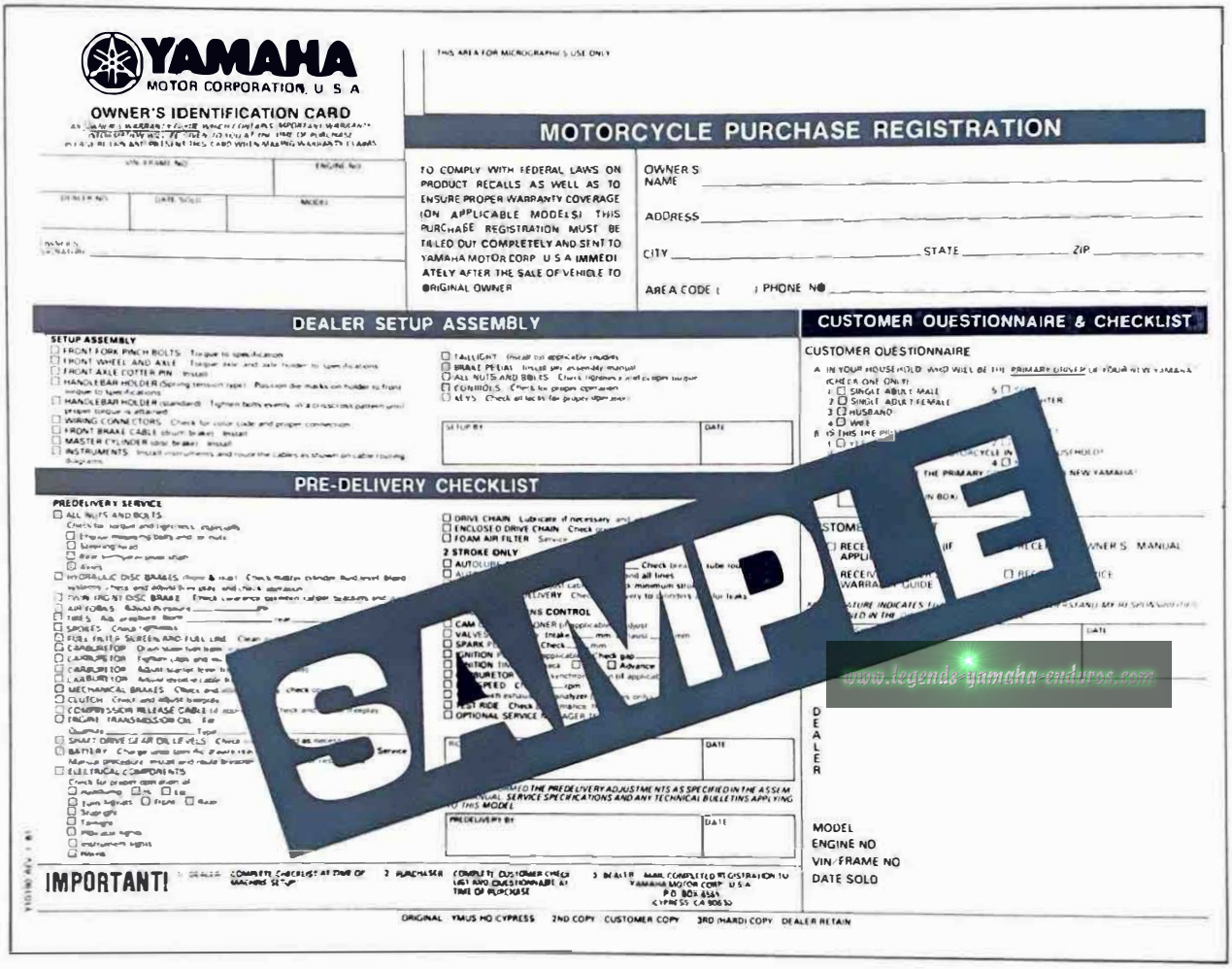

YAMAHA
MOTOR CORPORATION, U S A

OWNER'S IDENTIFICATION CARD

MOTORCYCLE PURCHASE REGISTRATION

TO COMPLY WITH FEDERAL LAWS ON PRODUCT RECALLS AS WELL AS TO ENSURE PROPER WARRANTY COVERAGE (ON APPLICABLE MODELS) THIS PURCHASE REGISTRATION MUST BE FILLED OUT COMPLETELY AND SENT TO YAMAHA MOTOR CORP U S A IMMEDIATELY AFTER THE SALE OF VEHICLE TO ORIGINAL OWNER

OWNER'S NAME

ADDRESS

CITY STATE ZIP

AREA CODE PHONE NO

DEALER SETUP ASSEMBLY

CUSTOMER QUESTIONNAIRE & CHECKLIST

CUSTOMER QUESTIONNAIRE

PRE-DELIVERY CHECKLIST

SAMPLE

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MODEL
ENGINE NO
VIN/FRAME NO
DATE SOLD

IMPORTANT!

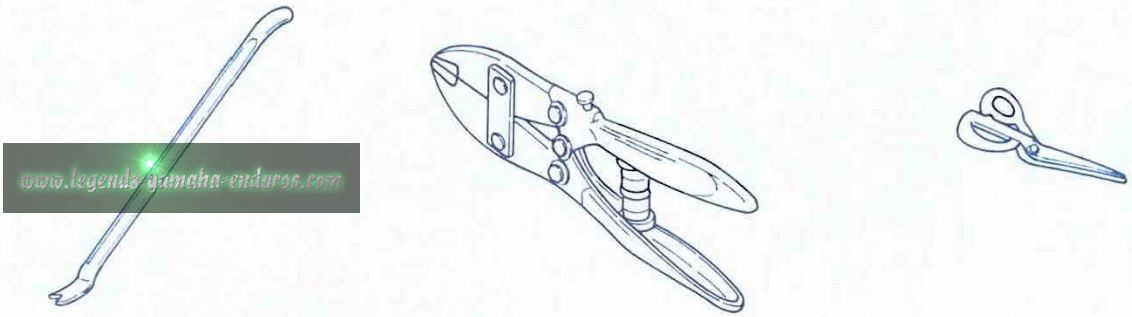
ORIGINAL YMUS HQ CYPRESS 2ND COPY CUSTOMER COPY 3RD (HARD) COPY DEALER RETAIN

3 TOOLS AND TORQUE SPECIFICATIONS

TOOLS FOR UNPACKING

To uncrate the machine, the following tools are required.

1. Bar
2. Wire cutter
3. Scissors



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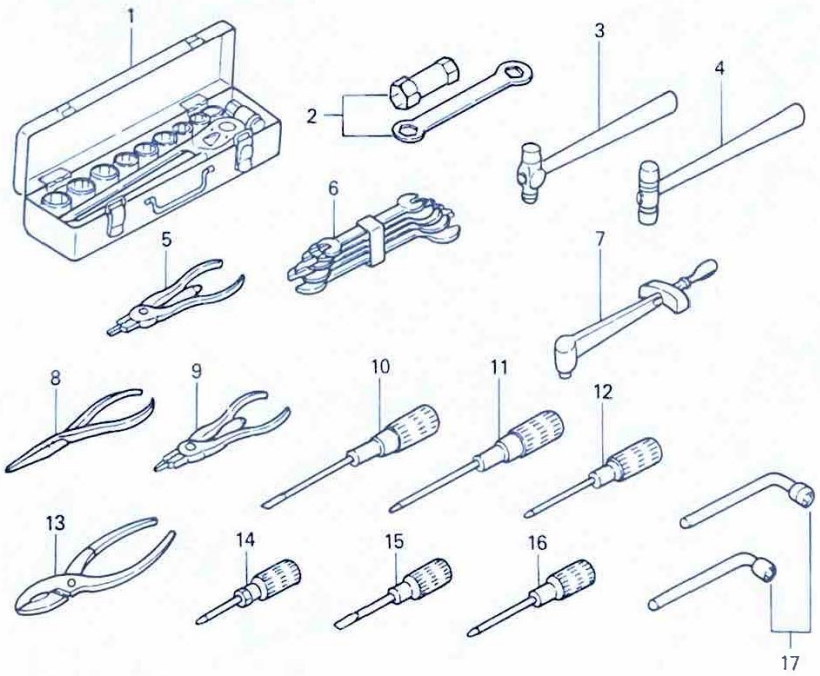
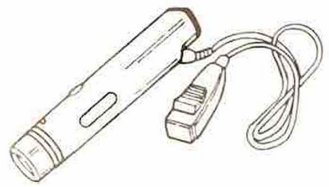
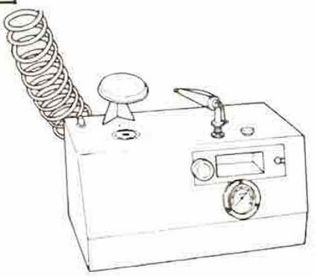
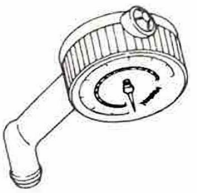
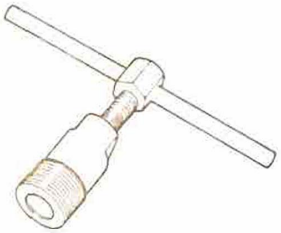
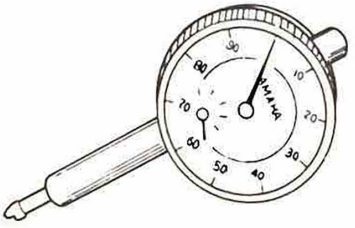
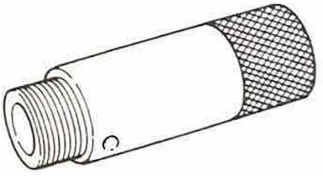
TOOLS FOR ASSEMBLING



1. Set of socket wrenches
2. Plug wrench
3. Steel hammer
4. Soft-faced hammer
5. Circlip pliers (ST type)
6. Set of open-end wrenches
7. Torque wrench
8. Needle nose pliers
9. Circlip pliers (RT type)
10. Slot-head screw driver (medium)
11. Philips-head screw driver (large)
12. Philips-head screw driver (medium)
13. Pliers
14. Philips-head screw driver
15. Slot-head screw driver (small)
16. Philips-head screw driver (small)
17. L-type socket wrench

TOOLS FOR ADJUSTMENT

1  90890-03109	2 	3  2X4-2811A-00
Timing light	Plug cleaner	Air check gauge
4  90890-01189	5  90890-01235	6  2K7-85555-00
Flywheel puller	Flywheel holder	Magnets puller
7  90890-01268	8  90890-03002	9  90890-01195
Steering nut wrench	Dial gauge	Dial gauge stand
10  90890-03042		
Dial gauge needle		

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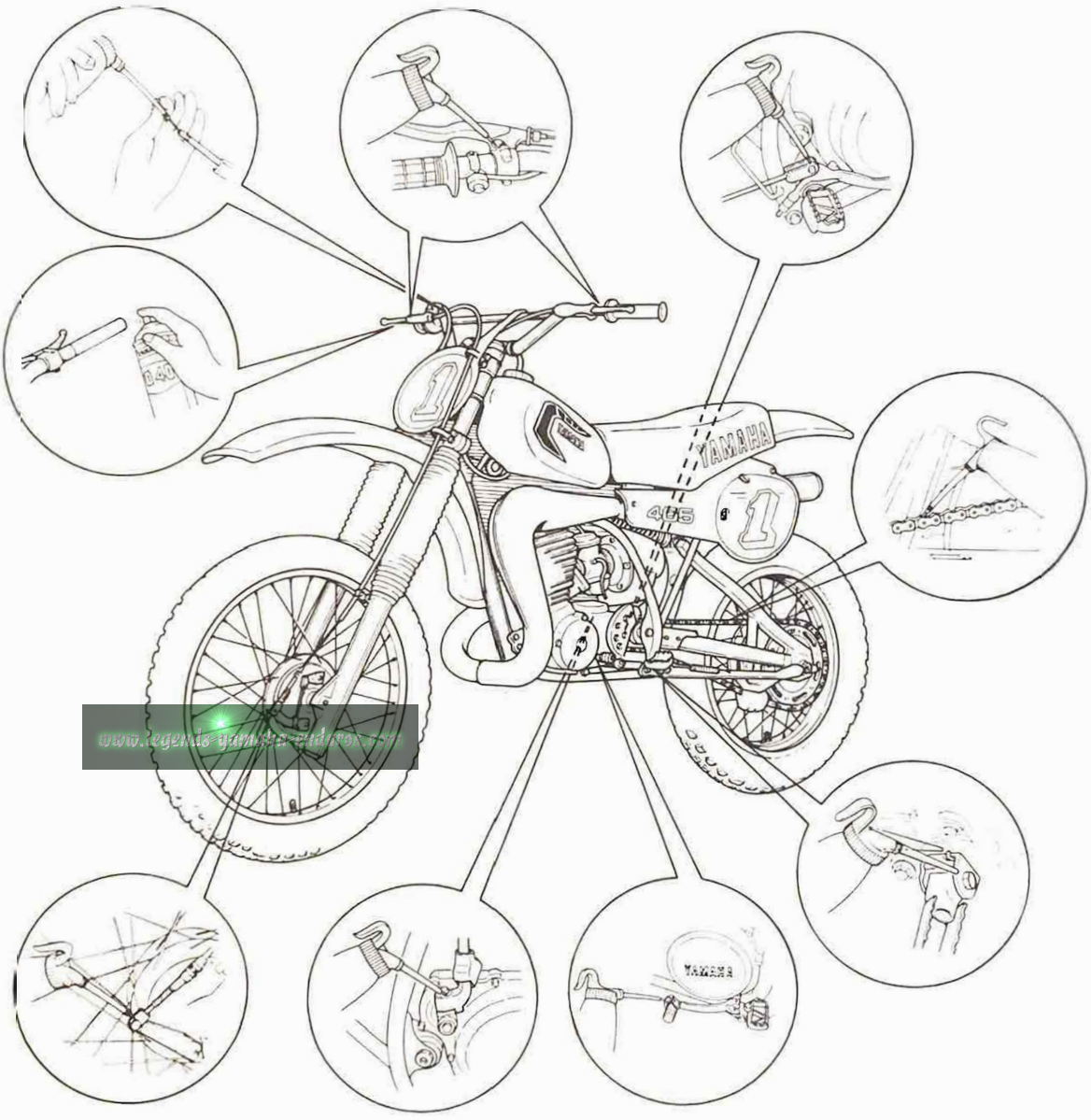
GENERAL LUBRICATION



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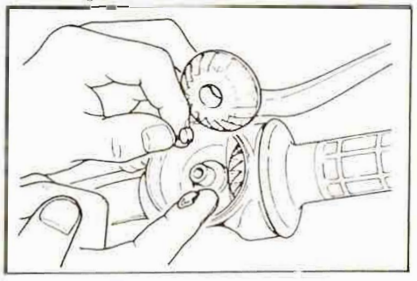
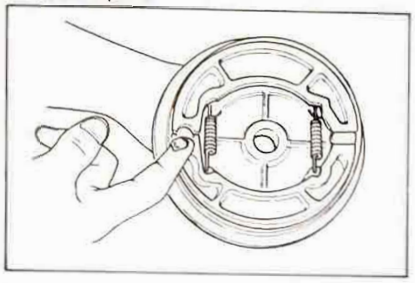
Throttle grip



Brake shoe plate



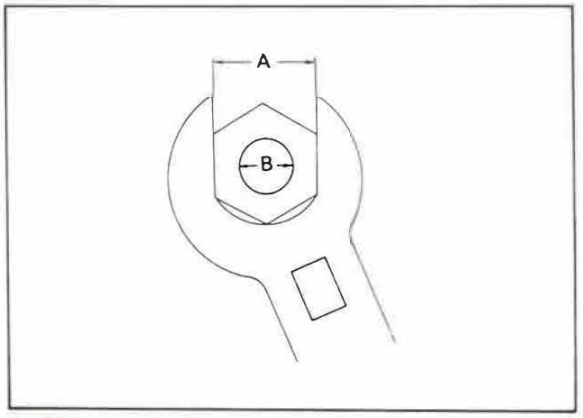
Recommended lubricants:

1. a. Use Yamaha Chain and Cable Lube
   b. Use SAE 10W 30 SE motor oil. (High-quality, "speciality" lubricants may also be used.)
2. Use lithium soap base grease.
3. High-quality, medium-weight wheel bearing grease-preferable waterproof.

GENERAL TORQUE SPECIFICATIONS

The list below covers those stud/bolt sizes with standard I.S.O. pitch threads. Torque specifications for components with thread pitches other than standard are given within the applicable chapter. Torque specifications call for dry, clean threads. Components such as the cylinder or cylinder head should be at room temperature piror to torquing. A cylinder head or any other item with several fasteners should be torqued down in a crosswise pattern in successive stages until torque specification is reached. The method is similar to installing as automobile wheel and will avoid warping the component.

A	B	General torque specification		
		N·m	m·kg	ft·lb
10 mm	6 mm	6	0.6	4.3
12 mm	8 mm	15	1.5	11
14 mm	10 mm	30	3.0	22
17 mm	12 mm	55	5.5	40
19 mm	14 mm	85	8.5	61
22 mm	16 mm	130	13.0	94



A. Distance across flats
B. Outside thread diameter

DEFINITION OF UNITS

Unit	Read	Definition	Measure
mm cm	millimeter centimeter	10^{-3} meter 10^{-2} meter	Length Length
kg	kilogram	10^{3} gram	Weight
N	Newton	1 kg × m/sec^{2}	Force
Nm m·kg	Newton meter Meter kilogram	N × m m × kg	Torque Torque
Pa N/mm	Pascal Newton per millimeter	N/m^{2} N/mm	Pressure Spring rate
L cm^{3}	Liter Cubic centimeter	———	Volume or Capacity
r/min	Rotation per minute	———	Engine Speed

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CONVERSION TABLES

Additional conversion tables are available in the model Service manuals and other related sources.

LENGTHS

Multiply	By	To Obtain	Multiply	By	To Obtain
Millimeters (mm)	0.03937	Inches	Kilometers (km)	.6214	Miles
Inches (in)	25.4	Millimeters	Miles (mi)	1.609	Kilometers
Centimeters (cm)	.3937	Inches	Meters (m)	3.281	Feet
Inches (in)	2.54	Centimeters	Feet (ft)	.3048	Meters

WEIGHTS

Kilograms (kg)	2.205	Pounds	Grams (g)	.03527	Ounces
Pounds (lbs)	.4536	Kilograms	Ounces (oz)	28.329	Grams

VOLUMES

Cubic centimeters (cc)	.06102	Cubic inches	Imperial gallons	277.274	cu.in.
Cubic inches (cu.in.)	16.385	cc.	Liters (ℓ)	1.057	Quarts
Liters (ℓ)	.264	Gallons	Quarts (qt)	.946	Liters
Gallons (gal)	3.785	Liters	Cubic centimeters (cc)	.0339	Fluid ounces
U.S. gallons	.8327	Imperial gals.	Fluid ounces (fl. oz)	29.57	cc.
Imperial gallons	4.537	Liters			

OTHERS

Metric horsepower (ps)	1.014	bhp	Foot-pounds (ft-lbs)	.1383	kg-m
Brake horsepower (bph)	.9859	ps.	Kilometers per liter (km/ℓ)	2.352	mpg
Kilogram-meter (kg-m)	7.234	Foot-pounds	Miles per gallon (mpg)	.4252	km/ℓ
Kilograms/sq.cm (kg/cm^2)	14.22	Pounds/sq.in. (obs/in^2 or psi)			
Centigrade (C°)	9/5(°C) + 32	Fahrenheit (F°)			

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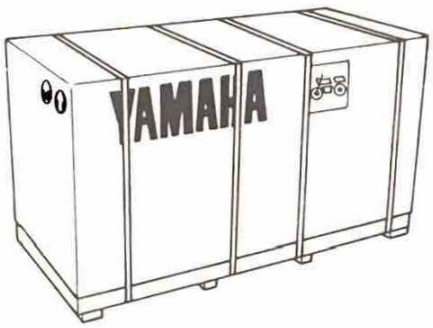
4 CRATES

HANDLING NOTES OF CARDBOARD CRATES

You will find the following marks on the crate sides. Read the explanation of these marks carefully in handling a crate.



Handling instruction marks

: This arrow mark indicates the top of the crate. Be sure to load, unload, or store the crate with this mark pointing upward.

: This mark indicates that the crate should be kept dry. Also avoid excessively humid places for storage.

: This mark indicates that the crate content is tragile. Do not drop the crate or subject it to sharp bumps or shocks.

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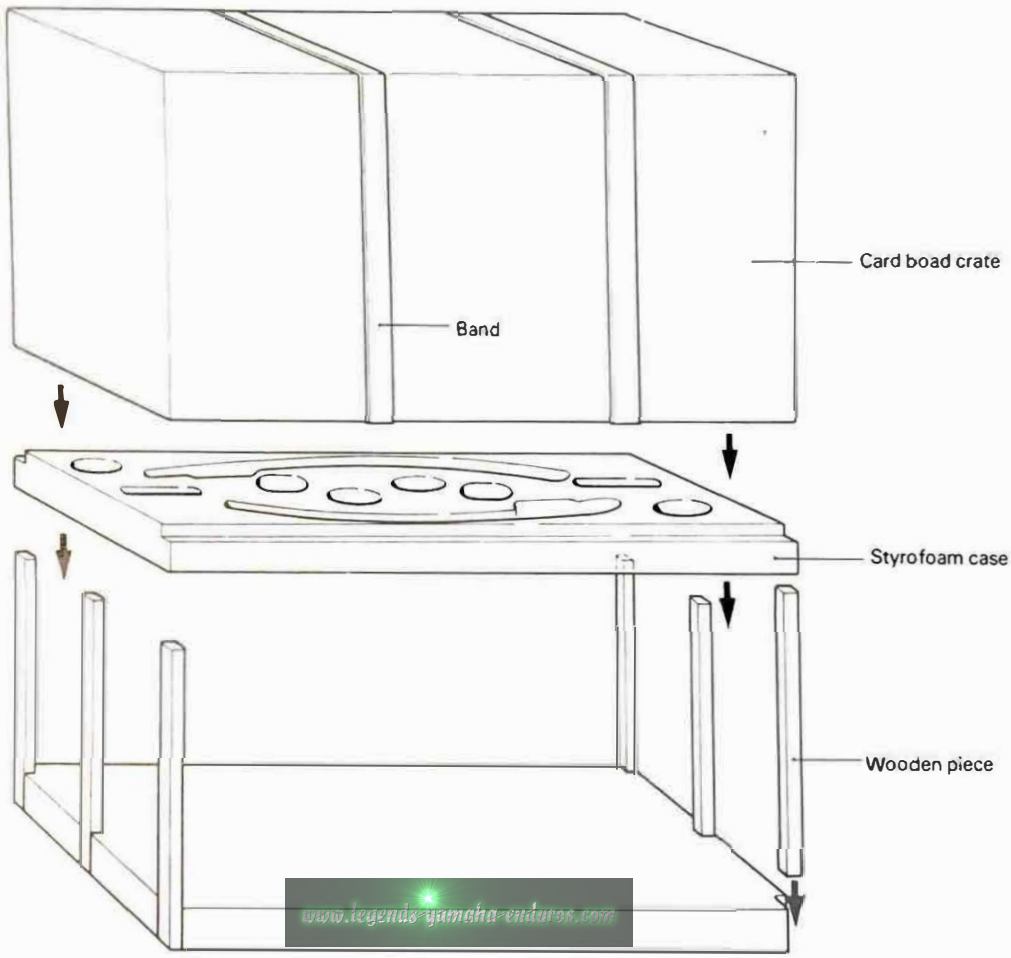
NOTES ON TRANSPORTATION

Observe the following in crate transportation.

- Select a level, dry, and well-ventilated place for strage.
- Do not stack crates more than 4 high.
- When moving or transporting a crate, take special care not to drop or bump it.

UNPACKING

Occasionally, crate material will vary as will the number of machines to a crate, but the uncrating procedure is basically the same for all Yamaha machines.



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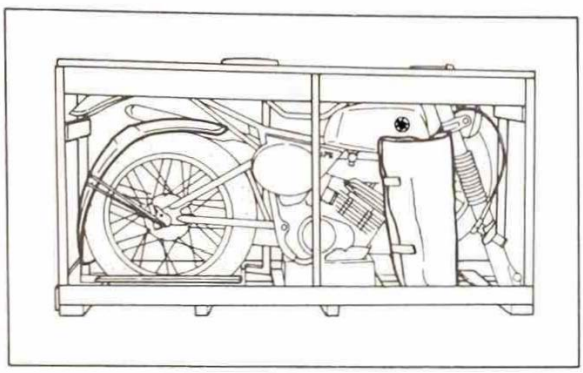
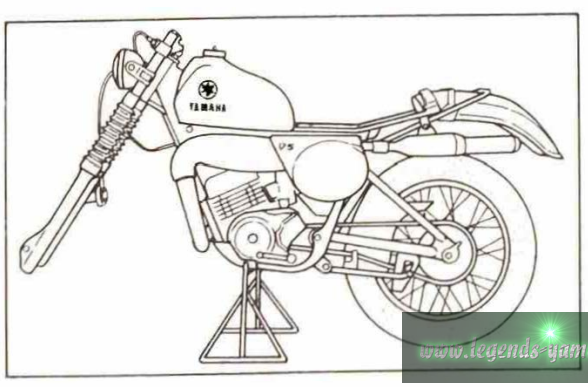
Procedure for unpacking

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



2. Remove the front fender and front wheel etc. from the styrofoam base.
3. Remove the nails from each corner of the crate, and remove the struts.
4. Lift up the machine, and remove the rear wheel section from the lower wooden case.
   Then take out the machine.
5. Place a proper-size wooden box or a machine stand under the engine to keep the front of the machine raised off the floor. Take care so that the machine does not fall over.



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5 INSTALLATION PROCEDURES

SECTION NAME	ABBREV.	Available type (s)
Front fender	F.F.	Type A, B, C
Front wheel	F.W.	Type A, B, C, D
Handlebar	H.B.	Type A
Throttle grip	T.G.	Type A, B
Brake and clutch cable	B.C.	Type A
Cable holder	C.H.	Type A, B, C
Engine stop switch	E.S.	Type A, B
Footrest	F.R.	Type A, B, C, D
Change pedal	C.P.	Type A
Number plate	N.P.	Type A, B, C
Fuel tank breather pipe	F.B.	Type A, B, C, D, E
Side cover	S.C.	Type A, B
Side stand	S.S.	Type A
Rear fender	R.F.	Type A, B, C
Seat	S.T.	Type A, B, C
Meter assembly	M.A.	Type A
Headlight	H.L.	Type A, B
Tool kit	T.K.	Type A, B, C, D
Bush guard	B.G.	Type A

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ASSEMBLY INSTRUCTIONS

Notes on servicing procedures are given in an appendix at the end of the manual. Please review this appendix throughly to acquaint yourself with the various service requirements a model must receive prior to delivery to the customer. Service procedures are given in the appropriate Service manual.

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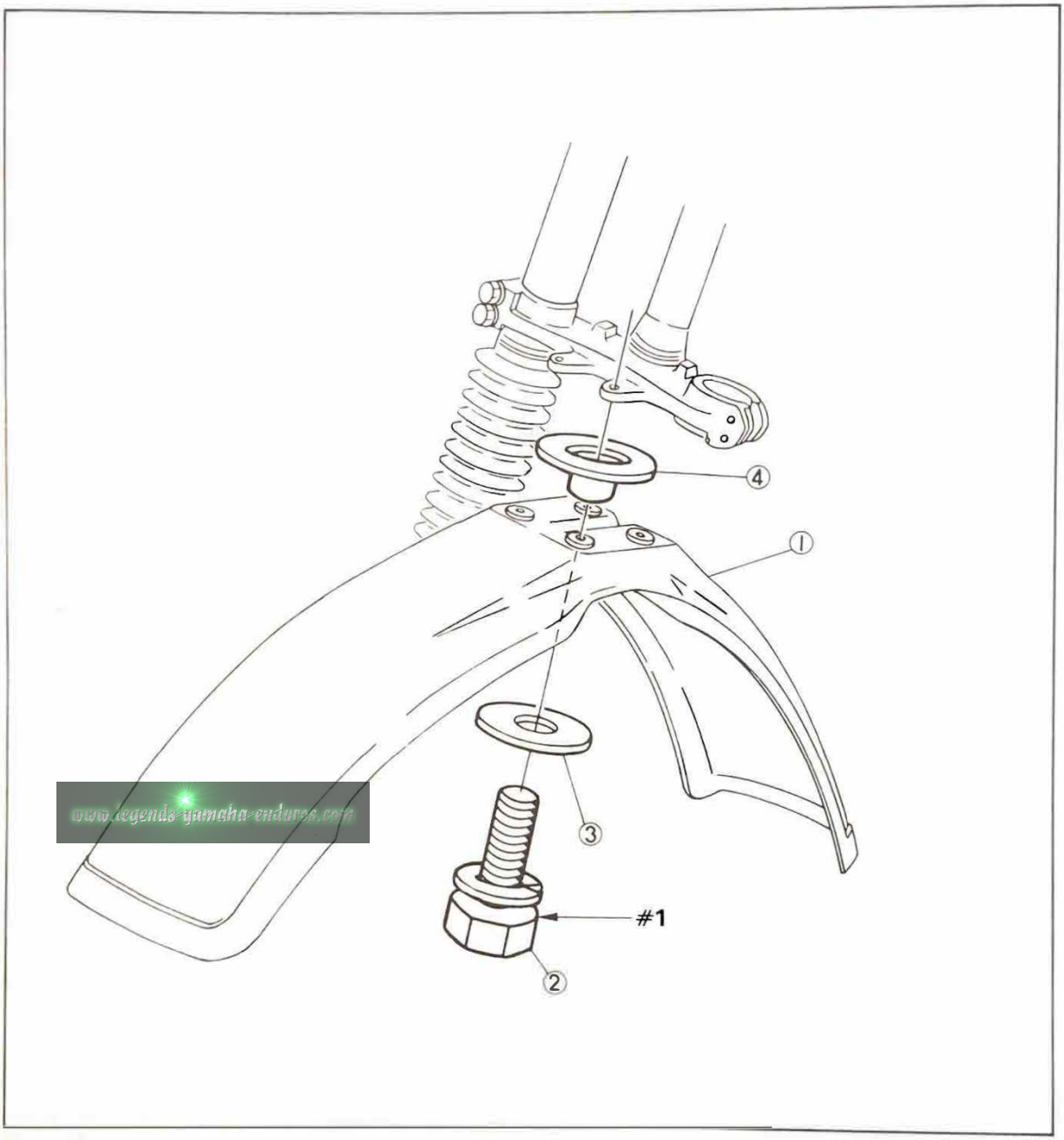

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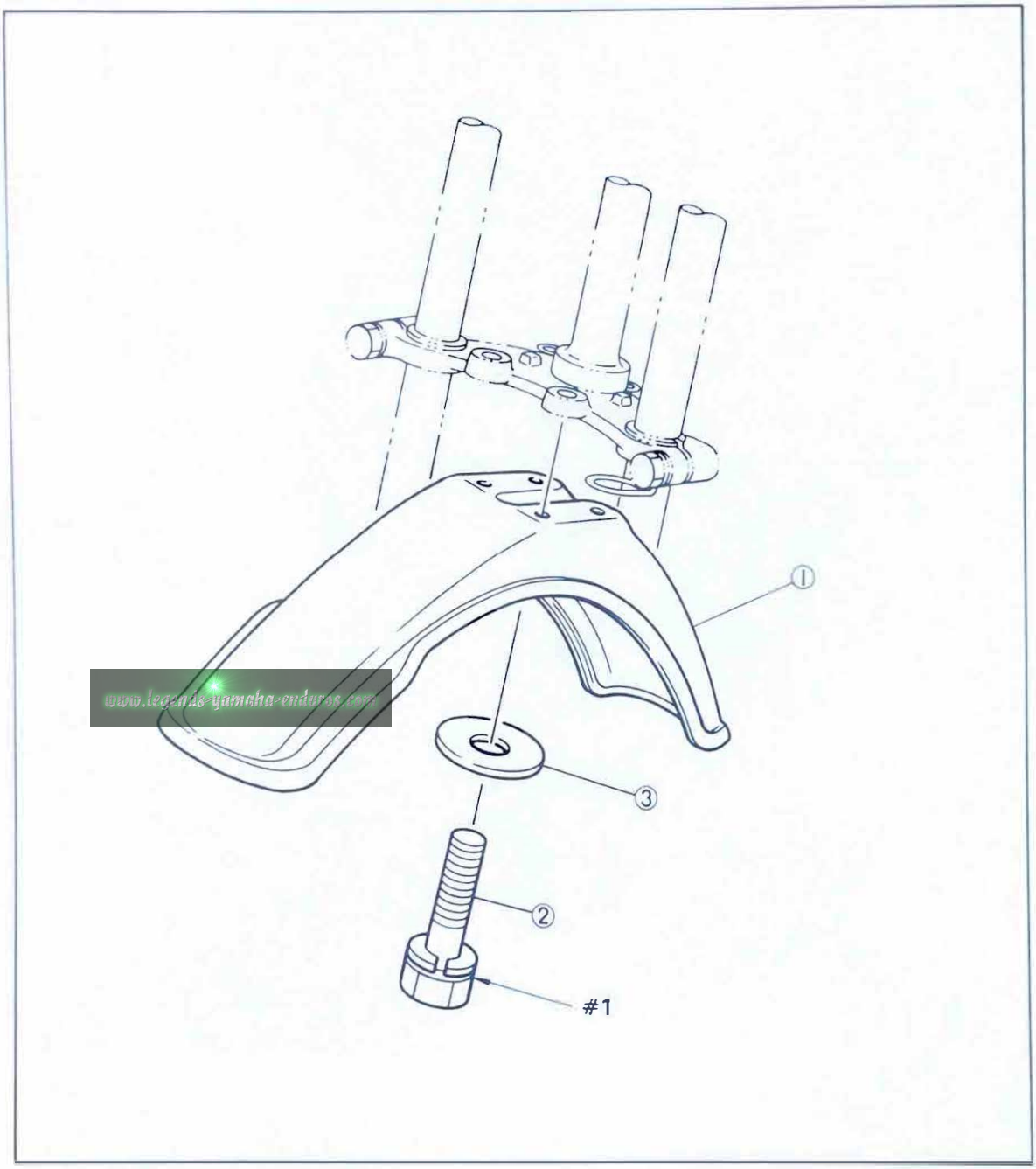
Parts list

No.	Part name	Q'ty	Remarks
1	Front fender	1	
2	Hexagon bolt with spring washer	4	d = 6 mm (0.24 in), ℓ = 20 mm (0.79 in)
3	Plain washer	4	d = 6 mm (0.24 in)
4	Special washer	4	d = 6 mm (0.24 in)



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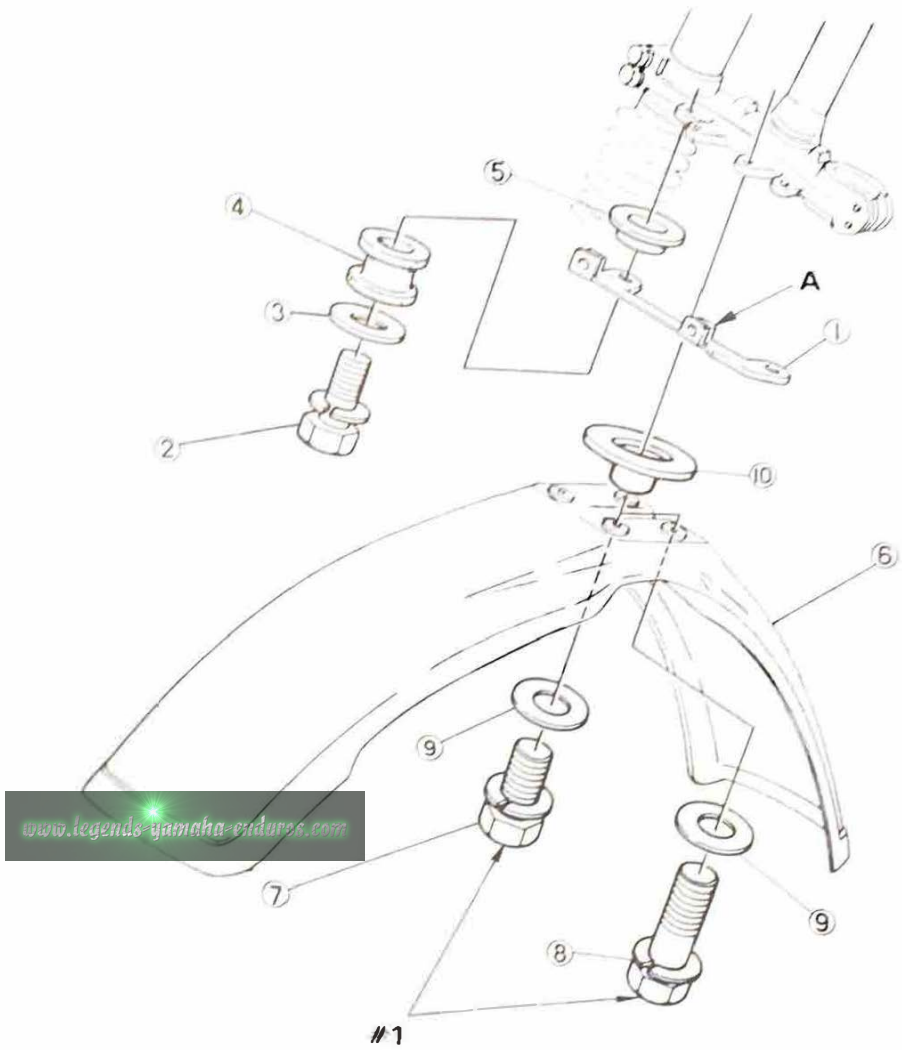
Parts list

No.	Part name	Q'ty	Remarks
1	Front fender	1	
2	Hexagon bolt with spring washer	4	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	4	d = 6 mm (0.24 in)



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Parts list

No.	Part name	Q'ty	Remarks
1	Number plate stay	1	
2	Hexagon bolt with spring washer	2	d = 6 mm (0.24 in), ℓ = 20 mm (0.79 in)
3	Plain washer	2	d = 6 mm (0.24 in)
4	Grommet	2	Rubber
5	Special washer	2	d = 6 mm (0.24 in)
6	Front fender	1	
7	Hexagon bolt with spring washer	2	d = 6 mm (0.24 in), ℓ = 20 mm (0.79 in)
8	Hexagon bolt with spring washer	2	d = 6 mm (0.24 in), ℓ = 35 mm (1.38 in)
9	Plain washer	4	d = 6 mm (0.24 in)
10	Special washer	4	d = 6 mm (0.24 in)

Setup points

A: Install the number plate stay under the lower bracket.

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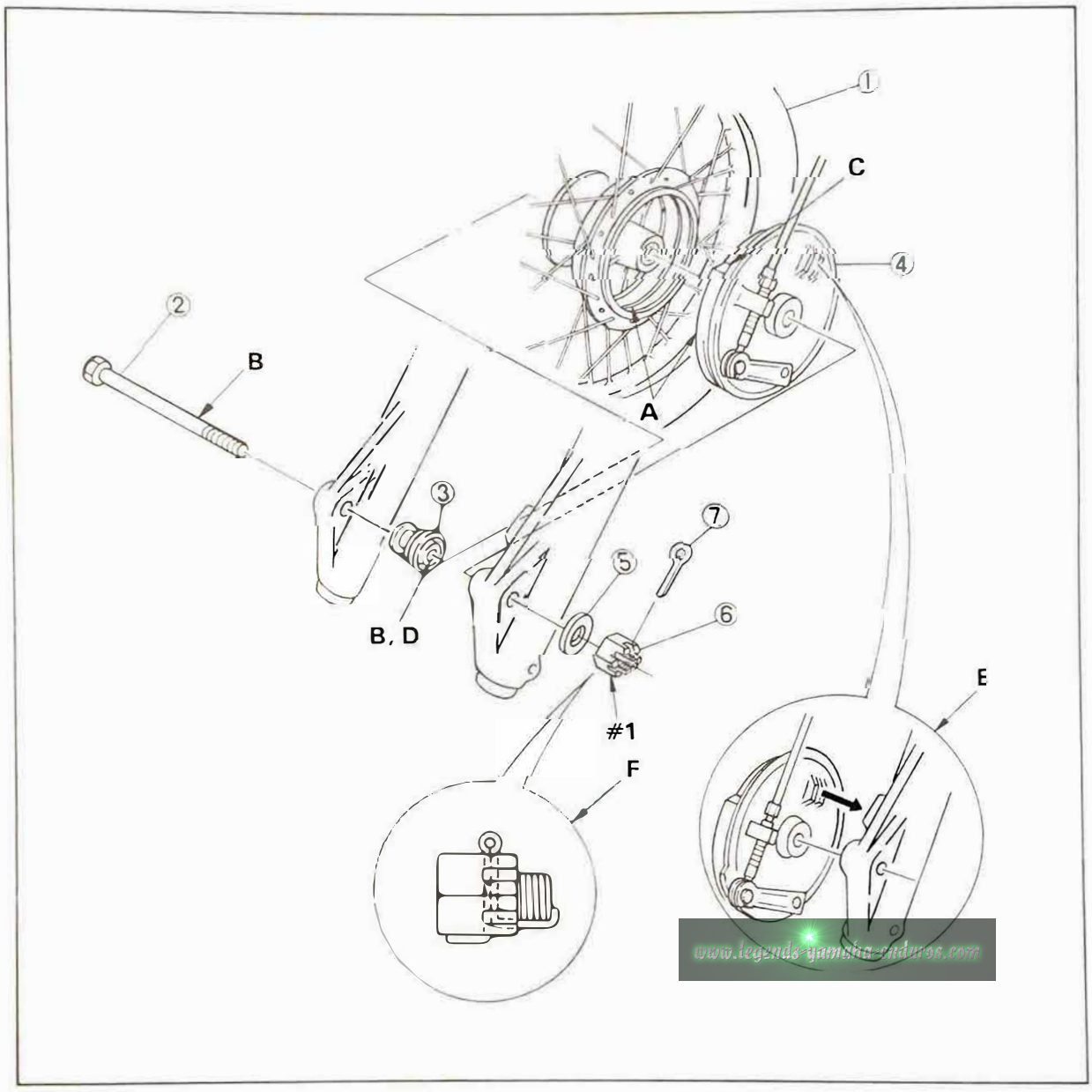

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Parts list

No.	Part name	Q'ty	Remarks
1	Front wheel	1	
2	Front wheel axle	1	d = 10 mm (0.39 in)
3	Wheel axle collar	1	d = 10 mm (0.39 in)
4	Brake shoe plate assembly	1	
5	Plain washer	1	d = 10 mm (0.39 in), D = 22 mm (0.87 in)
6	Castle nut	1	d = 10 mm (0.39 in)
7	Cotter pin	1	d = 2 mm (0.08 in), ℓ = 20 mm (0.79 in)

Setup points

A: Clean the brake shoe linings and the inner surface of the wheel hub with a clean cloth.

B: Apply a light coat of lithium soap base grease.

WARNING:

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.

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

D: If the collar is dirty, clean with a rag.

E: Before installing the axle nut, make sure the projection (torque stopper) on the front fork end is placed in the slot in the brake shoe plate.

F: Insert the cotter pin into the axle nut and bend the end of the cotter pin.

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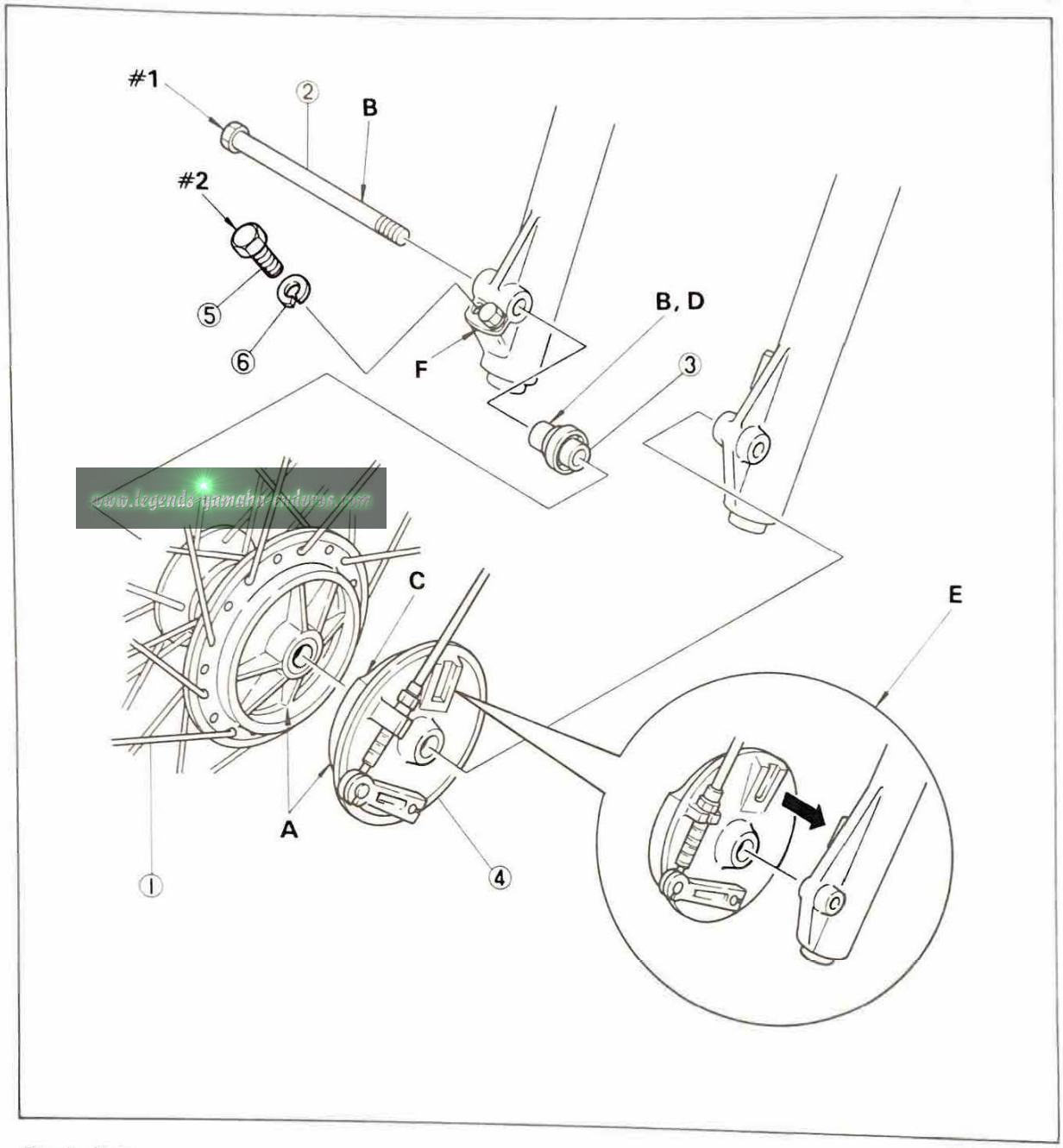

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Parts list

No.	Part name	Q'ty	Remarks
1	Front wheel	1	
2	Front wheel axle	1	d = 15 mm (0.59 in)
3	Wheel axle collar	1	d = 15 mm (0.59 in)
4	Brake shoe plate assembly	1	
5	Hexagon bolt	2	d = 8 mm (0.32 in), ℓ = 30 mm (1.18 in)
6	Spring washer	2	D = 8 mm (0.32 in)

Setup points

A: Clean the brake shoe linings and the inner surface of the wheel hub with a clean cloth.

B: Apply a light coat of lithium soap base grease.

WARNING:

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.

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

D: If the collar is dirty, clean with a rag.

E: Before tightening the front wheel axle, make sure the projection (torque stopper) on the front fork end is placed in the slot in the brake shoe plate.

F: Before tightening the pinch bolts, tighten the front wheel axle.

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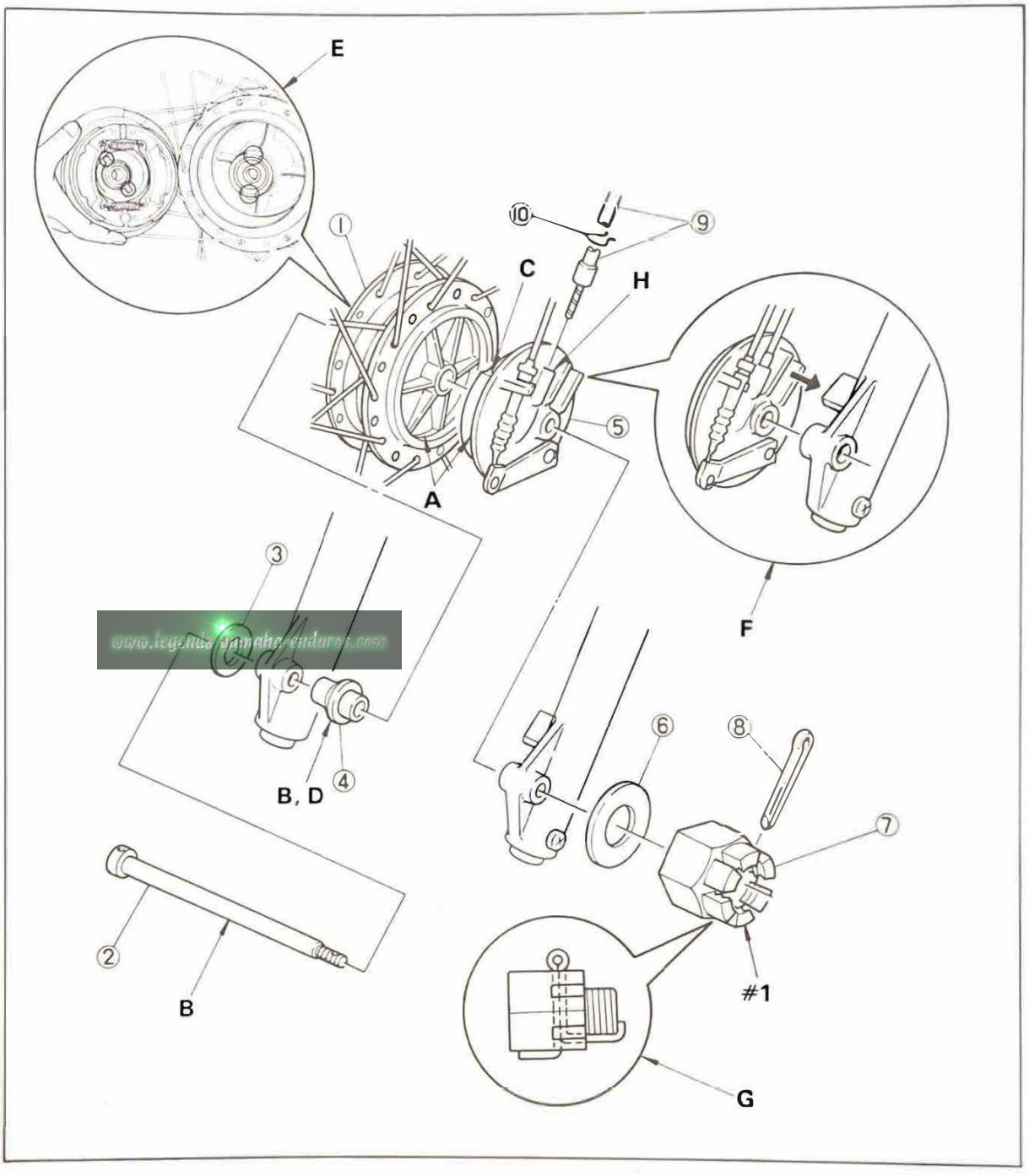

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Parts list

No.	Part name	Q'ty	Remarks
1	Front wheel	1	
2	Front wheel axle	1	d = 12 mm (0.47 in)
3	Plain washer	1	d = 12 mm (0.47 in)
4	Wheel axle collar	1	d = 12 mm (0.47 in)
5	Brake shoe plate assembly	1	
6	Plain washer	1	d = 12 mm (0.47 in)
7	Castle nut	1	d = 10 mm (0.39 in)
8	Cotter pin	1	d = 2 mm (0.08 in), ℓ = 20 mm (0.79 in)
9	Speedometer cable	1	
10	Circlip	1	

Setup points

A: Clean the brake shoe linings and the inner surface of the wheel hub with a clean cloth.

B: Apply a light coat of lithium soap base grease.

WARNING:

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.

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

D: If the collar is dirty, clean with a rag.

E: Make sure the two slots in the wheel hub are meshed with the two projections in the speedometer cable housing.

F: Before tightening the front wheel axle, make sure the projection (torque stopper) on the front fork end is placed in the slot in the brake shoe plate.

G: Insert the cotter pin into the axle nut and bend the end of the cotter pin.

H: Connect the speedometer cable to the brake shoe plate assembly.

NOTE:

Insert the cable end into the gear unit, fit the circlip in the groove on the brake shoe plate assembly, and lock the cable. (The circlip is already attached to the cable.) REFER TO "CABLE ROUTING".

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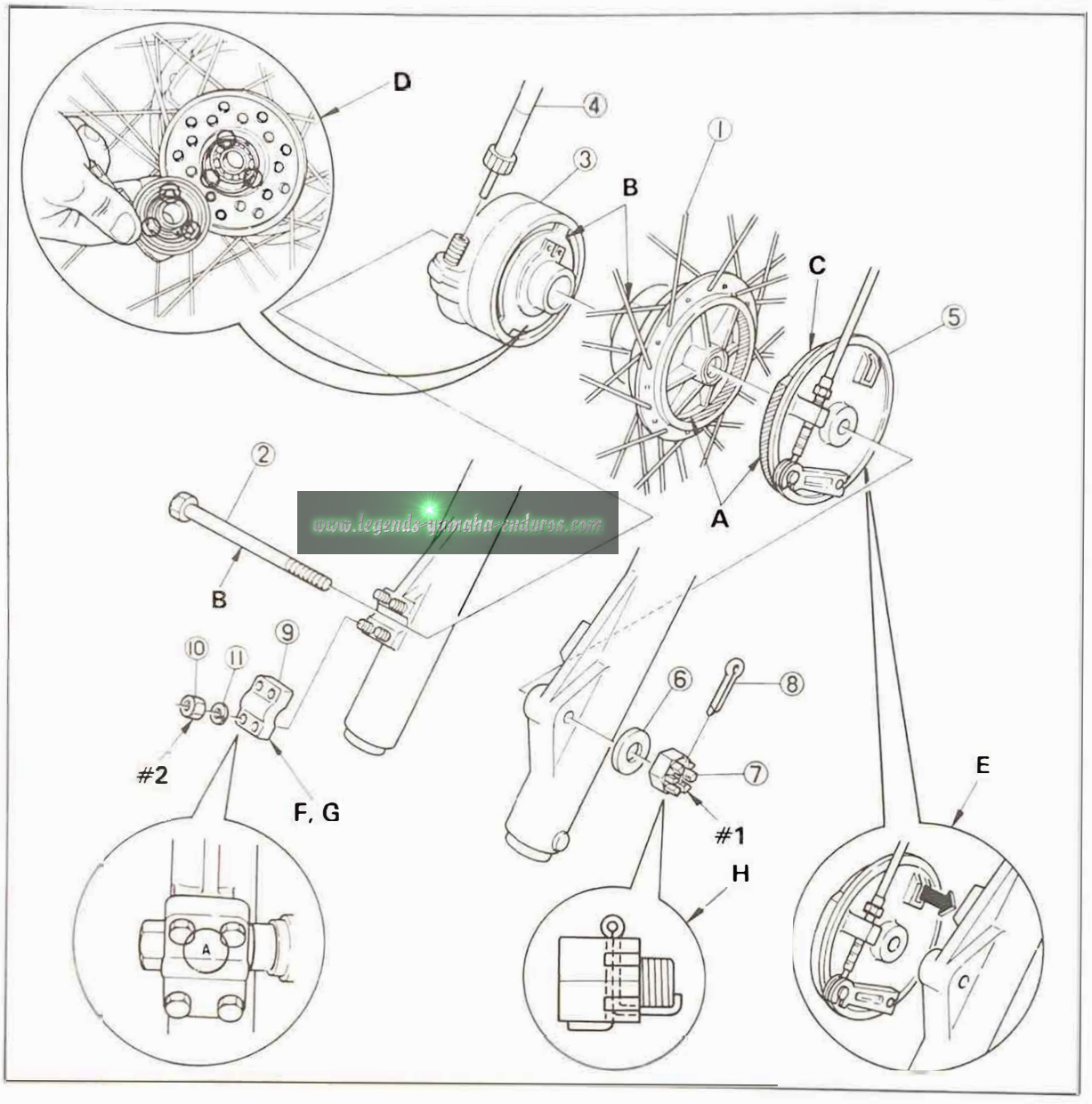

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Parts list

No.	Part name	Q'ty	Remarks
1	Front wheel	1	
2	Front wheel axle	1	d = 15 mm (0.59 in)
3	Speedometer cable housing	1	
4	Speedometer cable	1	
5	Brake shoe plate assembly	1	
6	Plain washer	1	d = 15 mm (0.59 in)
7	Castle nut	1	d = 14 mm (0.55 in)
8	Cotter pin	1	d = 3 mm (0.12 in), ℓ = 30 mm (1.18 in)
9	Front wheel axle holder	1	
10	Hexagon nut	4	d = 8 mm (0.32 in)
11	Spring washer	4	d = 8 mm (0.32 in)

Setup points

A: Clean the brake shoe linings and the inner surface of the wheel hub with a clean cloth.

B: Apply a light coat of lithium soap base grease.

WARNING:

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.

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

D: Make sure the three slots in the wheel hub are meshed with the three projections in the speedometer cable housing.

E: Before tightening the front wheel axle, make sure the projection (torque stopper) on the front fork end is placed in the slot in the brake shoe plate.

F: Tighten the pinch nuts temporarily before tightening the axle nut.

G: Secure the axle holder with pinch nuts.

CAUTION:

First tighten the nuts on the upper side of the axle holder, and then tighten the nuts on the lower side.

H: Insert the cotter pin into the axle nut and bend the end of the cotter pin.

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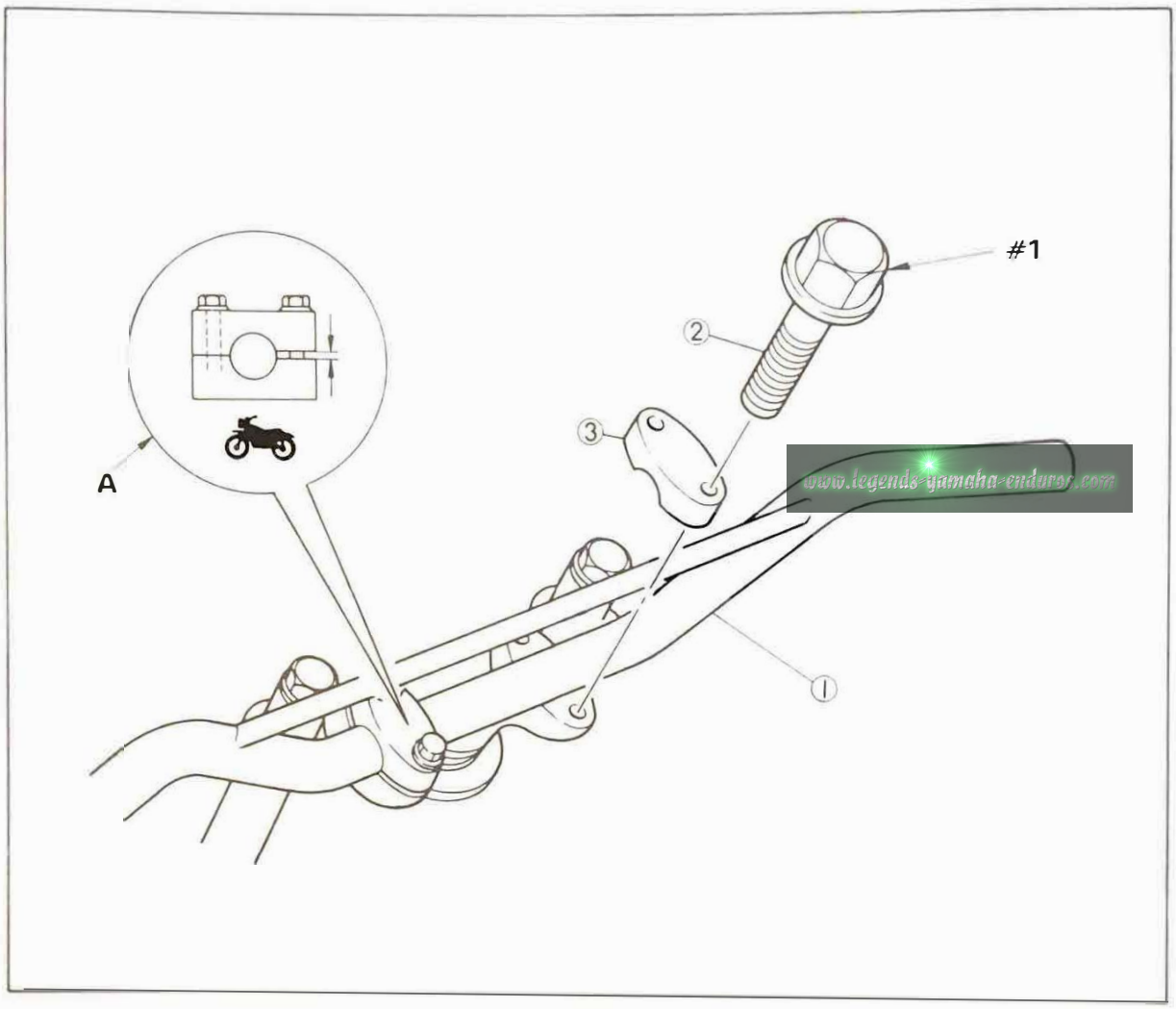

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Parts list

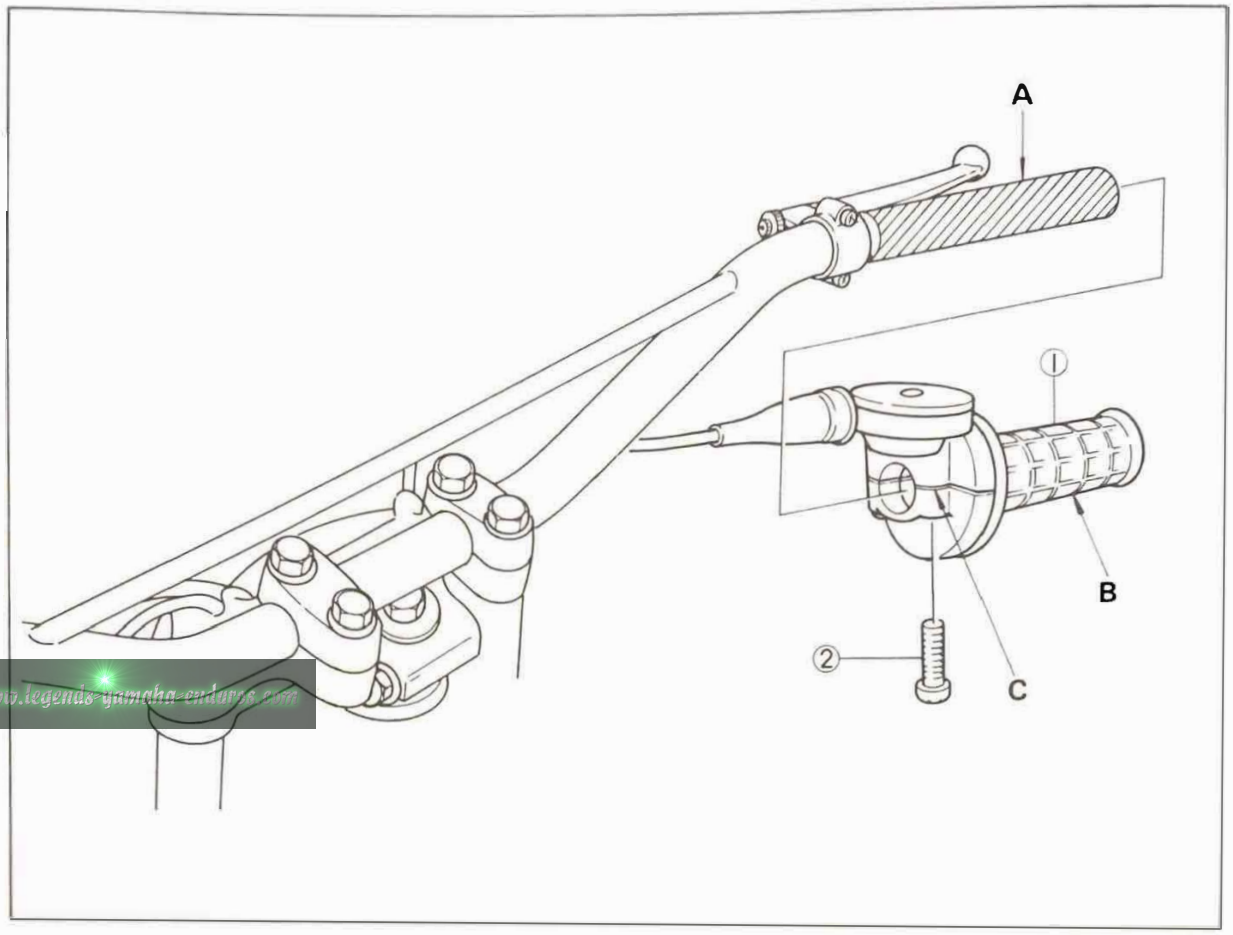
No.	Part name	Q'ty	Remarks
1	Handlebar	1	
2	Flange bolt	4	d = 8 mm (0.32 in), ℓ = 35 mm (1.38 in)
3	Handlebar upper holder	2	

Setup points

A: Secure the handlebar with the handlebar upper holders.

CAUTION:

First tighten the bolts on the front side of the handlebar holder, and then tighten the bolts on the rear side.



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Parts list

No.	Part name	Q'ty	Remarks
1	Throttle grip	1	
2	Panhead screw	2	d = 5 mm (0.2 in), ℓ = 16 mm (0.63 in)

Setup points

A: Wipe off any dust on the right handlebar end, and apply the lubricant to the handlebar end and the throttle grip housing.

Recommended lubricant:
Yamaha Chain and Cable Lube or
SAE 10W 30 motor oil

B: Slip the throttle grip over the right handlebar to the limit and slide it back about 2 mm (0.08 in).

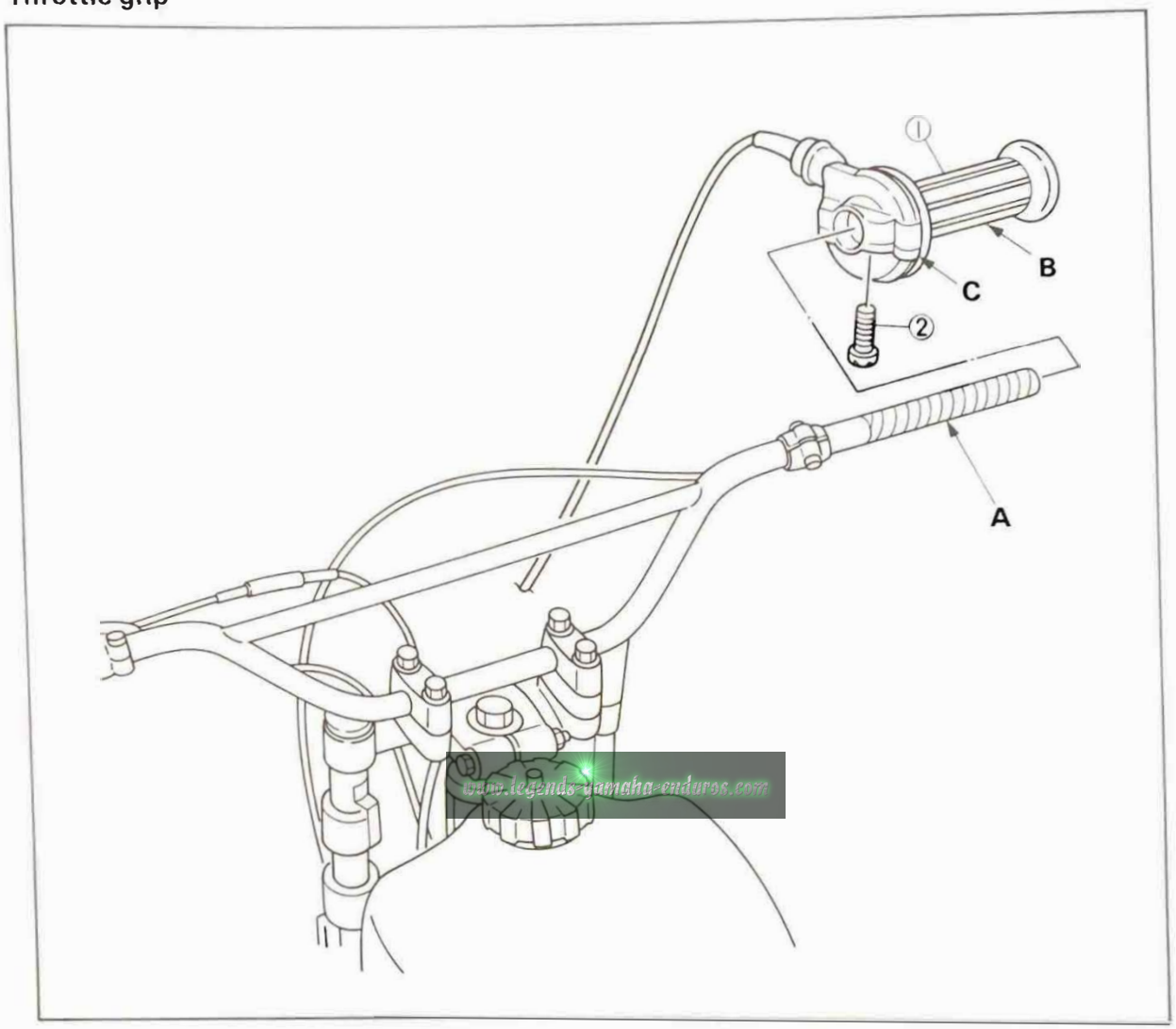
C: Put together the upper and lower throttle grip housing halves with screws.

NOTE:

Check the throttle grip for smooth action. REFER TO "ADJUSTMENTS AND PREDELIVERY SERVICE".

CAUTION:

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



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Parts list

No.	Part name	Q'ty	Remarks
1	Throttle grip	1	
2	Panhead screw	2	d = 5 mm (0.2 in), ℓ = 15 mm (0.59 in)

Setup points

A: Wipe off any dust on the right handlebar end, and apply the lubricant to the handlebar end and the throttle grip housing.

Recommended lubricant:
Yamaha Chain and Cable Lube or
SAE 10W 30 motor oil

B: Slip the throttle grip over the right handlebar to the limit and slide it back about 2 mm (0.08 in).

C: Put together the upper and lower throttle grip housing halves with screws.

NOTE:

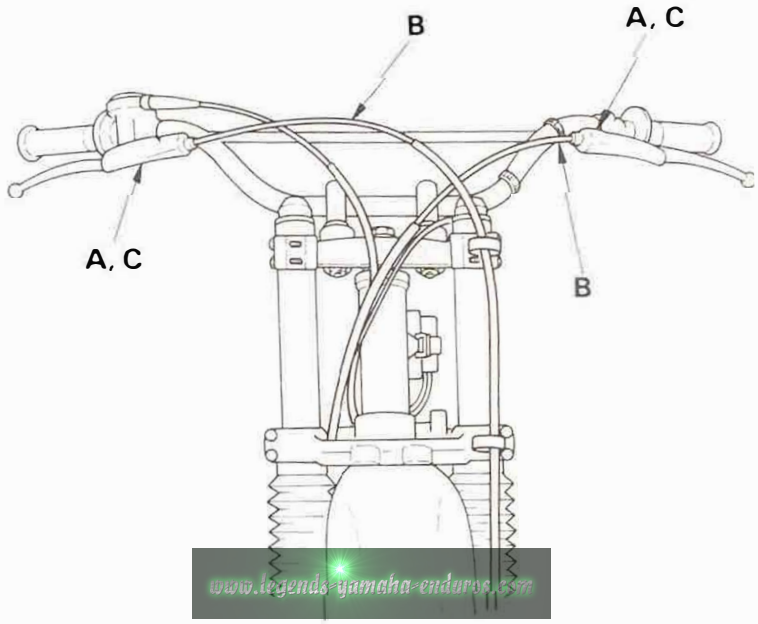
Check the throttle grip for smooth action. REFER TO "ADJUSTMENTS AND PREDELIVERY SERVICE".

CAUTION:

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

Brake and clutch cable

[B.C-A]



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Setup points

A: Lubricate the pivoting parts of each lever.

Recommended lubricants: Yamaha Chain and Cable Lube or SAE 10W30 motor oil

B: To install the brake cable and clutch cable, be sure to proceed as follows;

a. Loosen the lock nut on the brake shoe assembly, and then loosen the adjuster on the brake shoe assembly.

b. Fully loosen the lock nut on the cable holder, and screw in the adjuster on the cable holder until tight. Next, align the slit in the adjuster and lock nut with the slit in the lever holder.

c. Insert the cable end into the lever hole, and hook the outer cable end onto the 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.

NOTE:

Check the brake lever and clutch lever for smooth action. REFER TO "ADJUSTMENTS AND PREDELIVERY SERVICE".

WARNING

Proper cable and lead routing is essential to assure safe vehicle operation. REFER TO "CABLE ROUTING".

C: Cover the brake lever and clutch lever holders with the covers.

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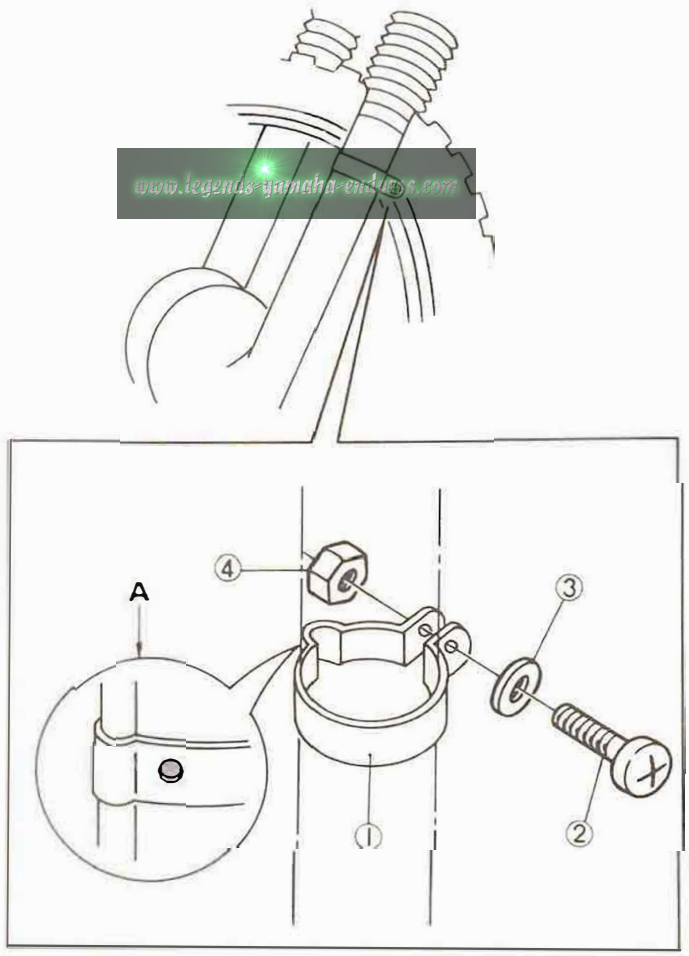
Cable holder (Left)

[C.H-A]



Parts list

No.	Part name	Q'ty	Remarks
1	Cable holder	1	
2	Panhead screw	1	d = 5 mm (0.2 in), ℓ = 18 mm (0.71 in)
3	Plain washer	1	d = 5 mm (0.2 in)
4	Hexagon nut	1	d = 5 mm (0.2 in)

Setup points

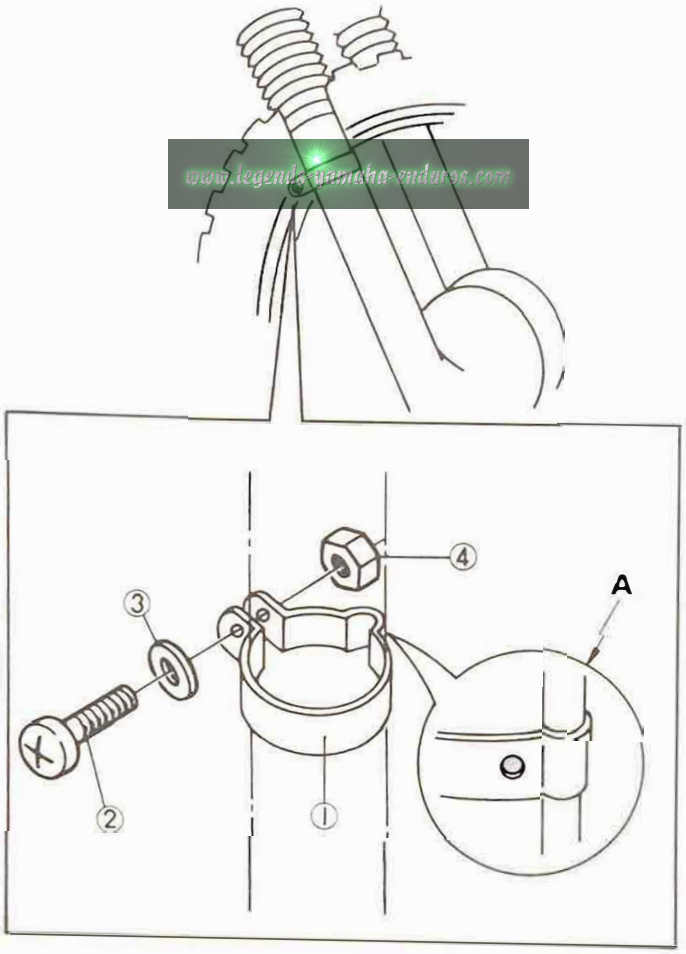
A: Install the cable holder to the fork leg.

NOTE:

Mate the stopper (projection) on the fork leg with the corresponding hole in the cable holder.

Cable holder (Right)

[C.H-B]



Parts list

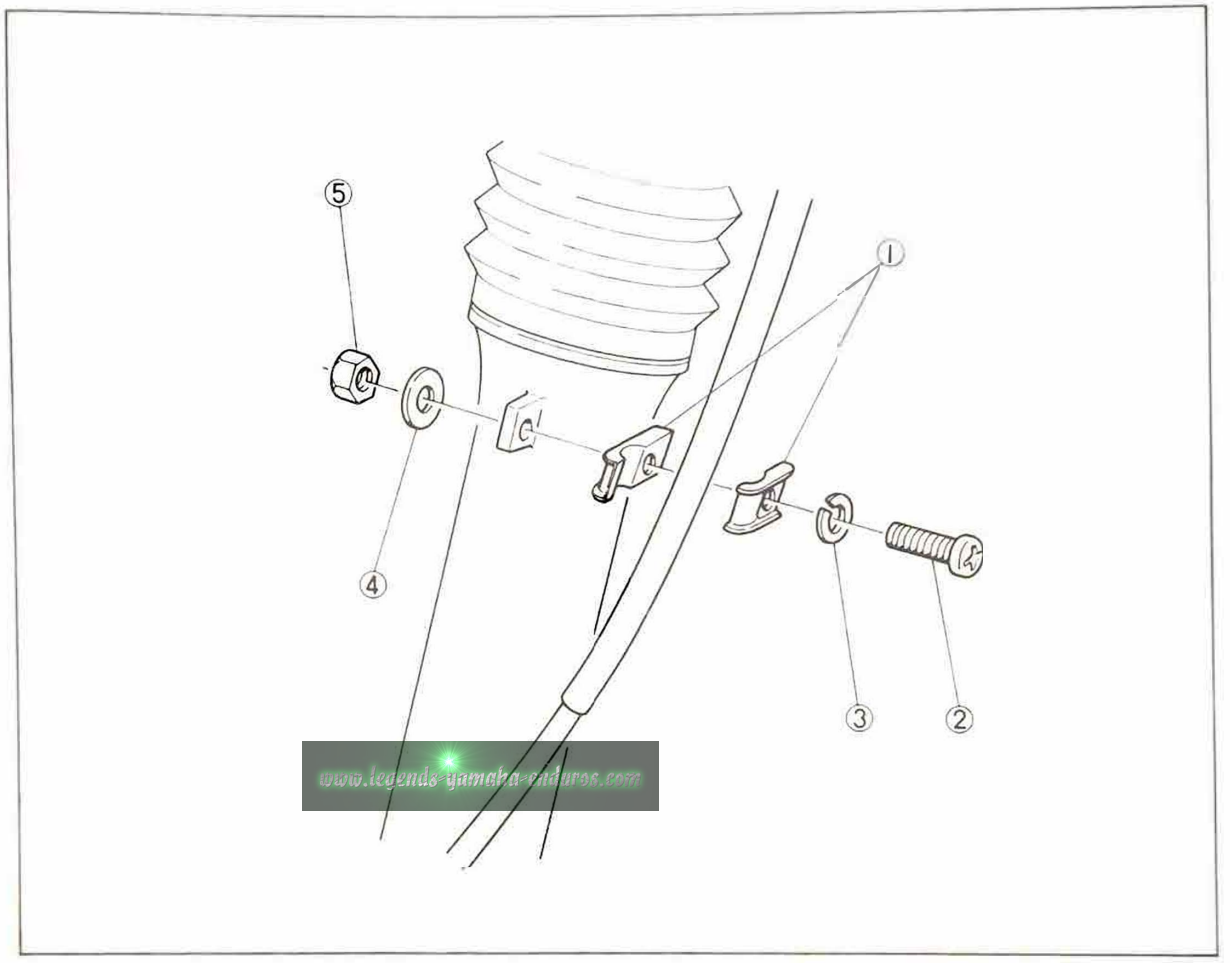
No.	Part name	Q'ty	Remarks
1	Cable holder	1	
2	Panhead screw	1	d = 5 mm (0.2 in), ℓ = 18 mm (0.71 in)
3	Plain washer	1	d = 5 mm (0.2 in)
4	Hexagon nut	1	d = 5 mm (0.2 in)

Setup points

A: Install the cable holder to the fork leg.

NOTE:

Mate the stopper (projection) on the fork leg with the corresponding hole in the cable holder.



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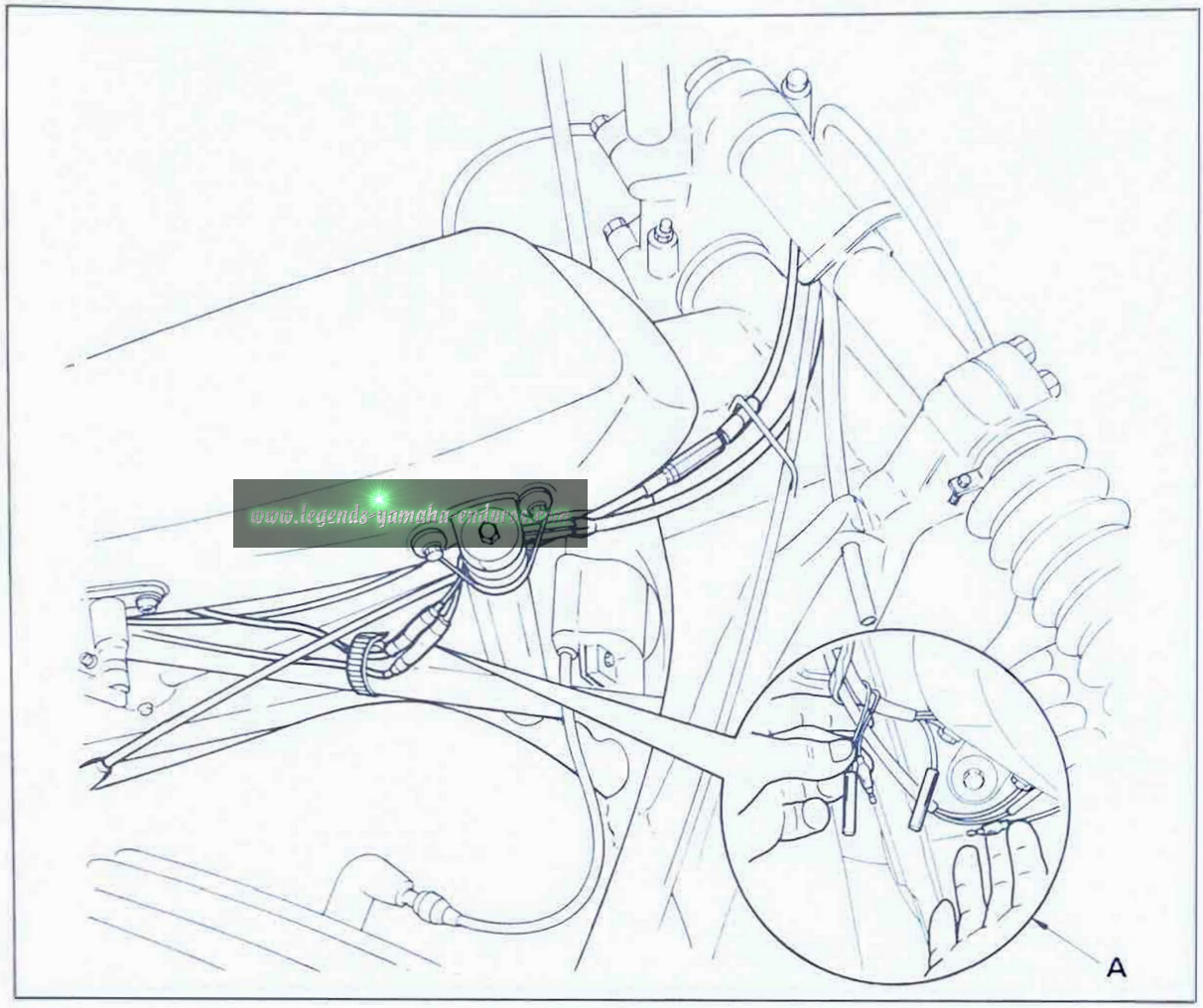
Parts list

No.	Part name	Q'ty	Remarks
1	Cable holder (Left and Right)	2	
2	Panhead screw	1	d = 6 mm (0.24 in), ℓ = 25 mm (0.98 in)
3	Spring washer	1	d = 6 mm (0.24 in)
4	Plain washer	1	d = 6 mm (0.24 in)
5	Hexagon nut	1	d = 6 mm (0.24 in)

Setup points

A: Pass the brake cable through each holder and secure the cable holders to the fork leg.



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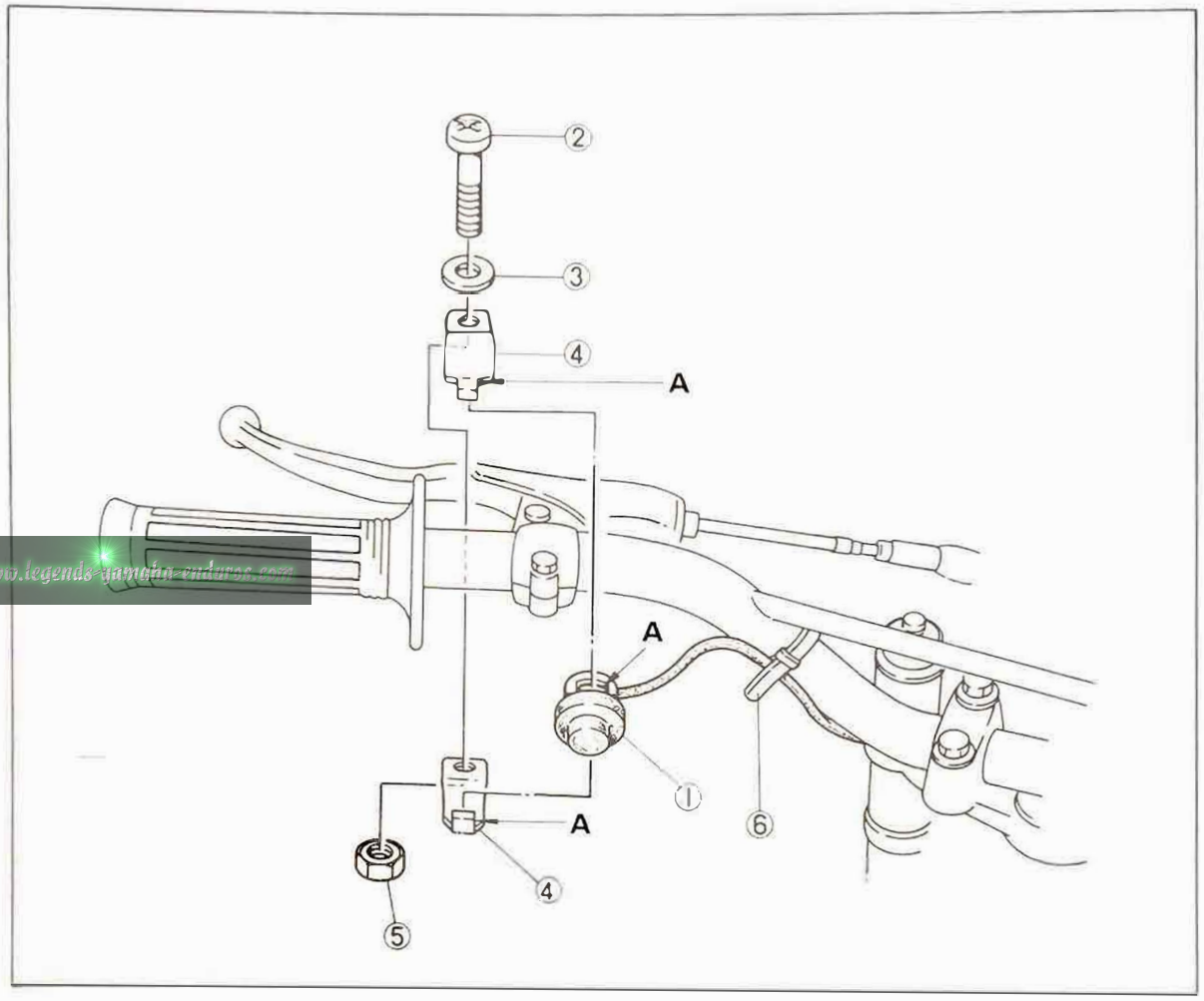
Setup points

A: Connect the engine stop switch lead coming from the engine stop switch to the lead (Black/White) coming from the magneto assembly.



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Parts list

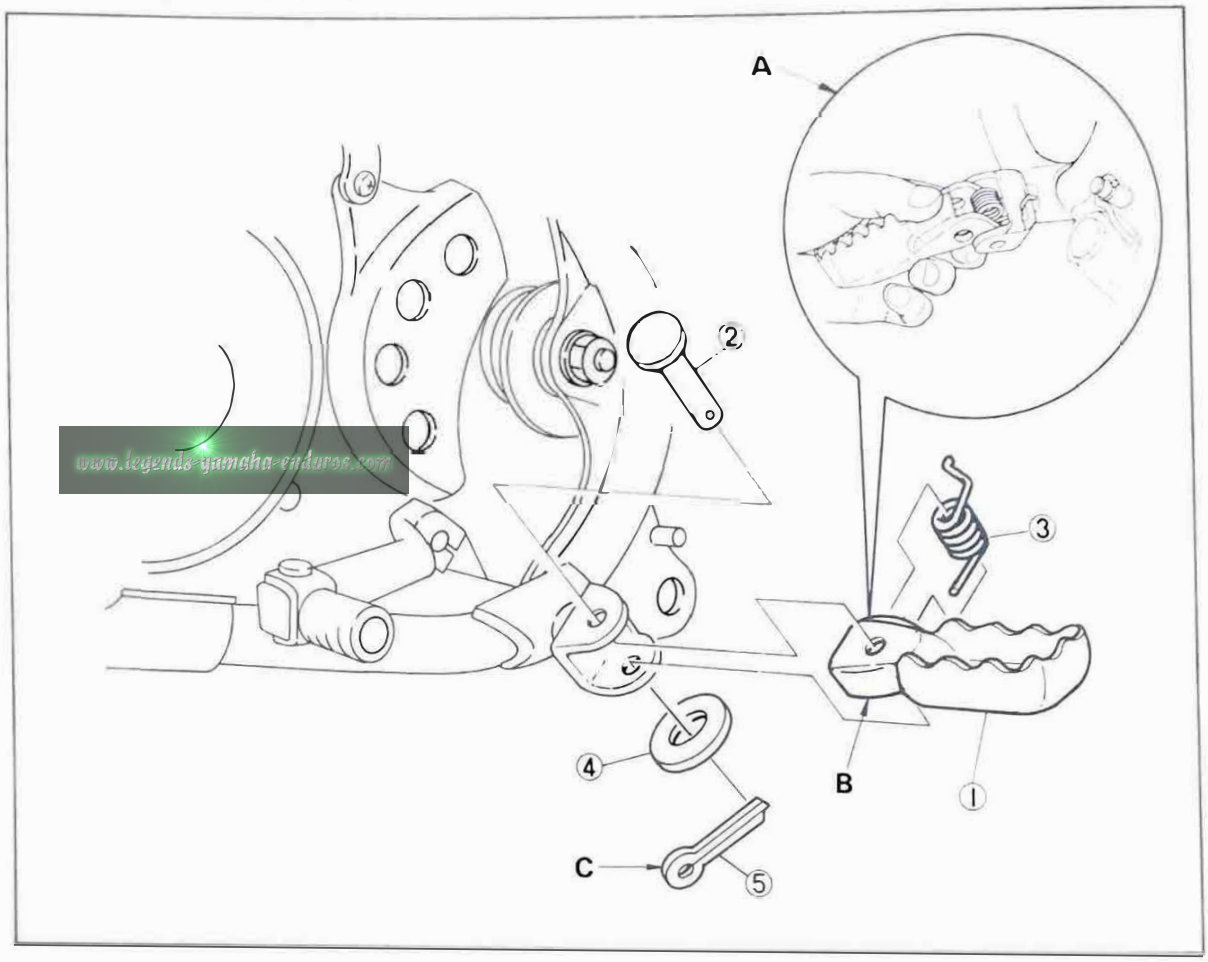
No.	Part name	Q'ty	Remarks
1	Engine stop switch	1	
2	Panhead screw	1	d = 3 mm (0.12 in)
3	Plain washer	1	d = 3 mm (0.12 in)
4	Engine stop switch holder (Upper and Lower)	2	
5	Hexagon nut	1	d = 3 mm (0.12 in)
6	Handlebar band	2	Plastic

Setup points

A: After installing the engine stop switch holder, secure the engine stop switch lead with the band.

NOTE:

Be sure to insert the engine stop switch holder tabs (Upper and Lower) into the hole in the engine stop switch.



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Parts list

No.	Part name	Q'ty	Remarks
1	Footrest	1	
2	Clevis pin	1	d = 8 mm (0.32 in), ℓ = 38 mm (1.5 in)
3	Return spring (Torsion spring)	1	
4	Plain washer	1	d = 8 mm (0.32 in)
5	Cotter pin	1	d = 2.5 mm (0.1 in), ℓ = 12 mm (0.47 in)

Setup points

A: Fit the footrest to the frame.

NOTE:

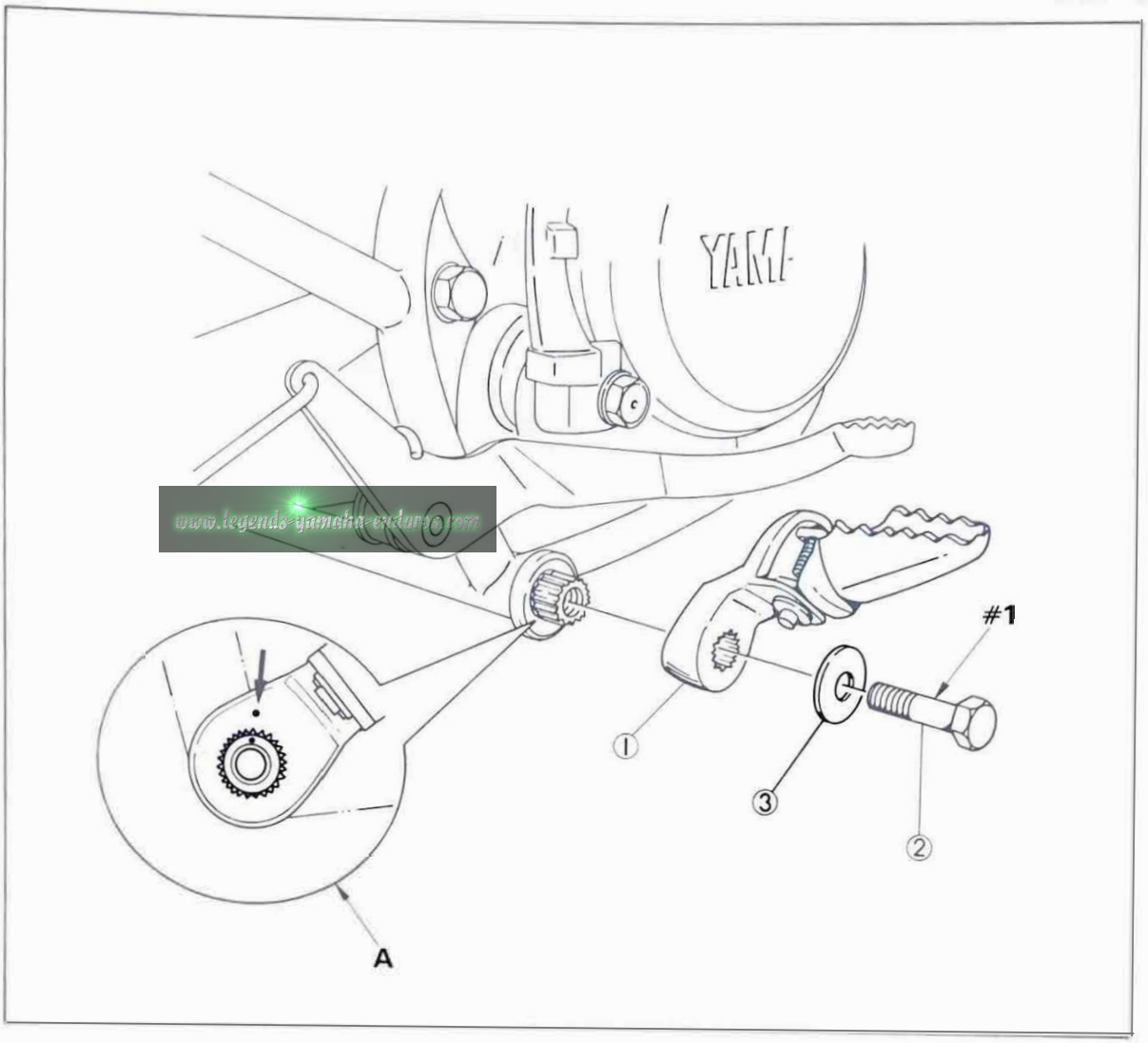
Hook one end of the return spring onto the hole in the bracket, and insert the other end into the footrest.

B: Secure the footrest.

NOTE:

Check the footrest for smooth action.

C: Insert the cotter pin into the clevis pin and bend the end of the cotter pin.



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Parts list

No.	Part name	Q'ty	Remarks
1	Footrest (Right)	1	
2	Hexagon bolt	1	d = 10 mm (0.4 in), ℓ = 16 mm (0.63 in)
3	Plain washer	1	d = 10 mm (0.4 in)

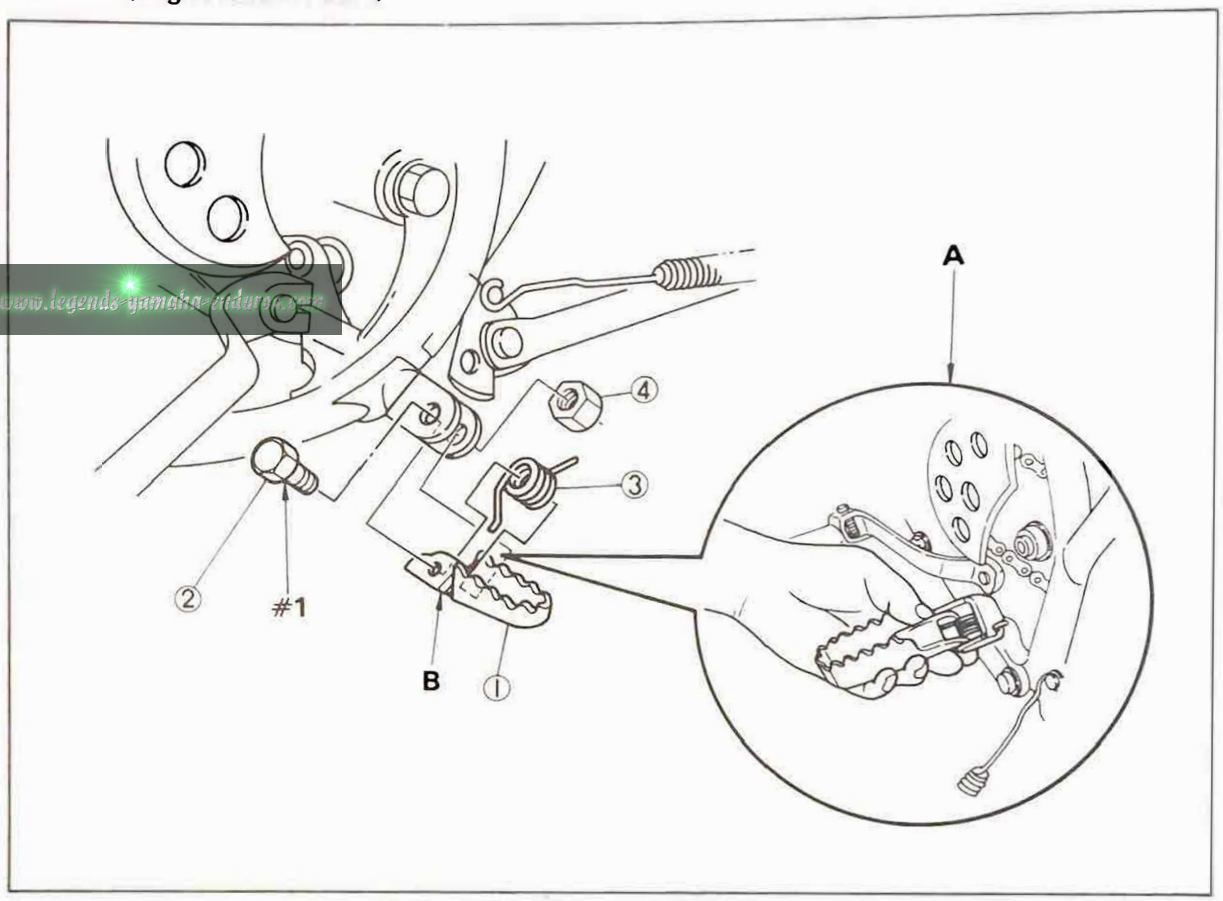
Setup points

A: Secure the footrest to the frame.

NOTE:

Align the punch marks on the footrest and footrest shaft.

Footrest (Right and/or Left)



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Parts list

No.	Part name	Q'ty	Remarks
1	Footrest	1	
2	Hexagon bolt	1	d = 8 mm (0.32 in), ℓ = 28 mm (1.1 in)
3	Return spring (Torsion spring)	1	
4	Self locking nut	1	d = 8 mm (0.32 in)

Setup points

A: Fit the footrest to the frame.

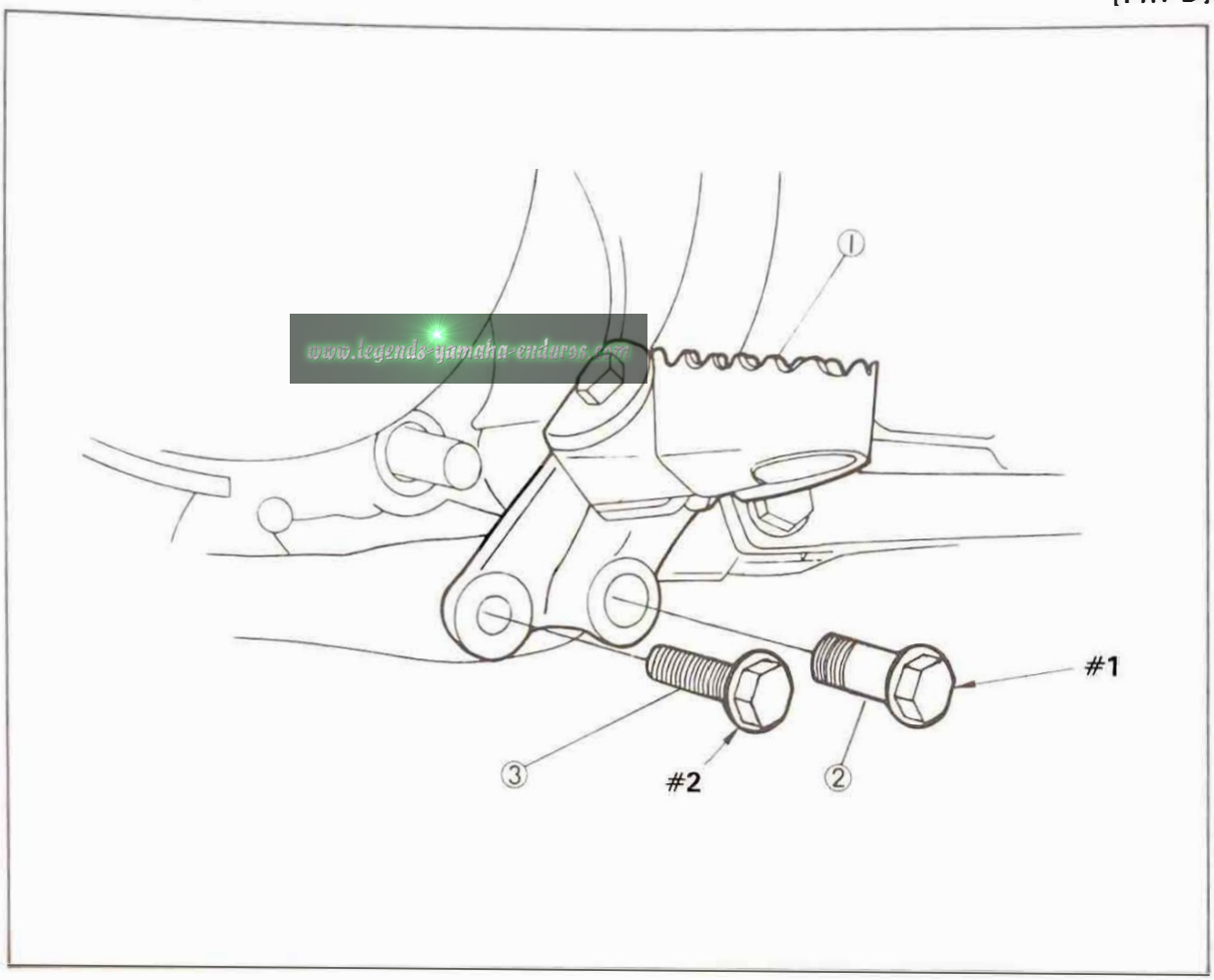
NOTE:

Hook one end of the return spring onto the hole in the bracket, and insert the other end into the footrest.

B: Secure the footrest.

NOTE:

Check the footrest for smooth action.



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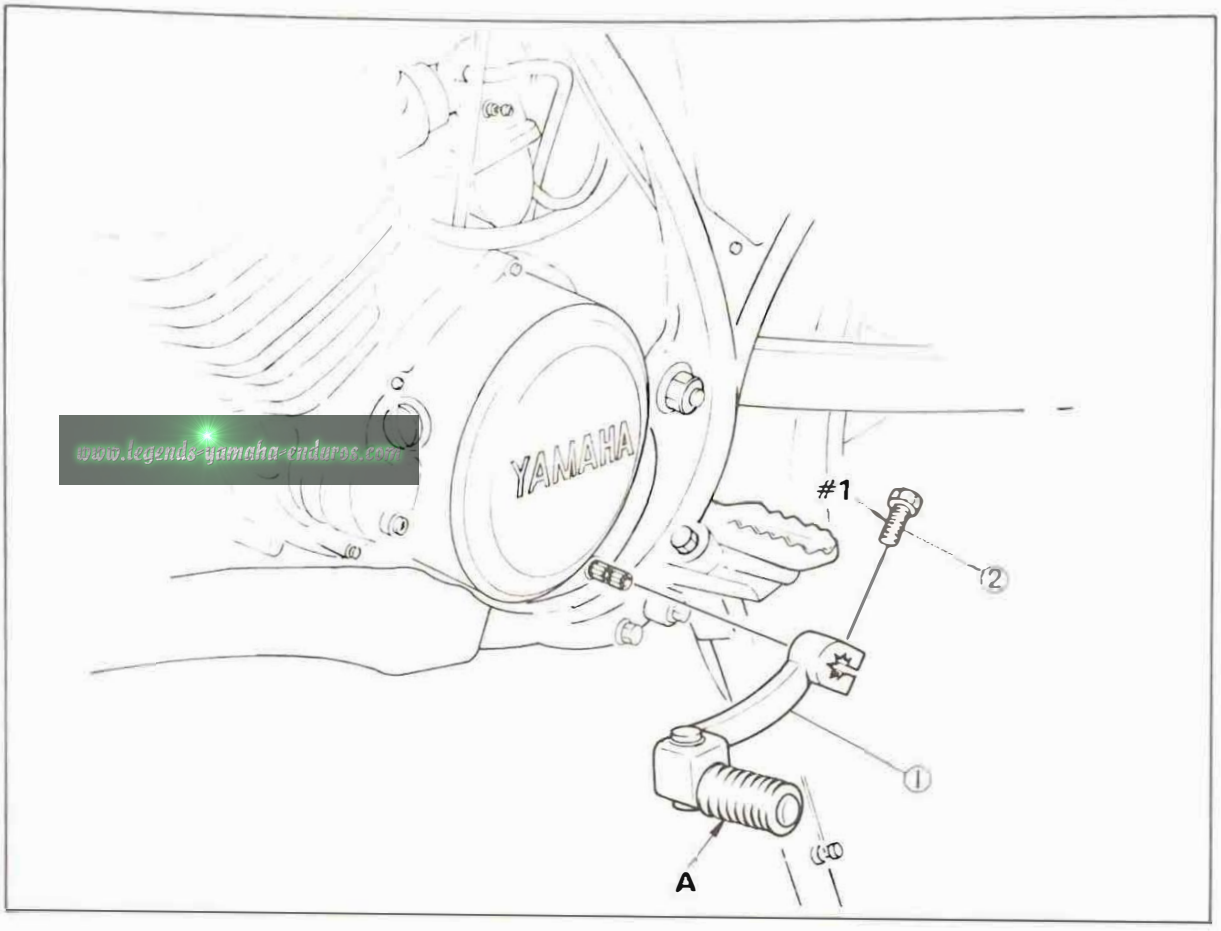
Parts list

No.	Part name	Q'ty	Remarks
1	Footrest (Left)	1	
2	Flange bolt	1	d = 12 mm (0.47 in), ℓ = 25 mm (0.98 in)
3	Flange bolt	1	d = 10 mm (0.4 in), ℓ = 20 mm (0.8 in)

Change pedal [C.P-A]



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Parts list

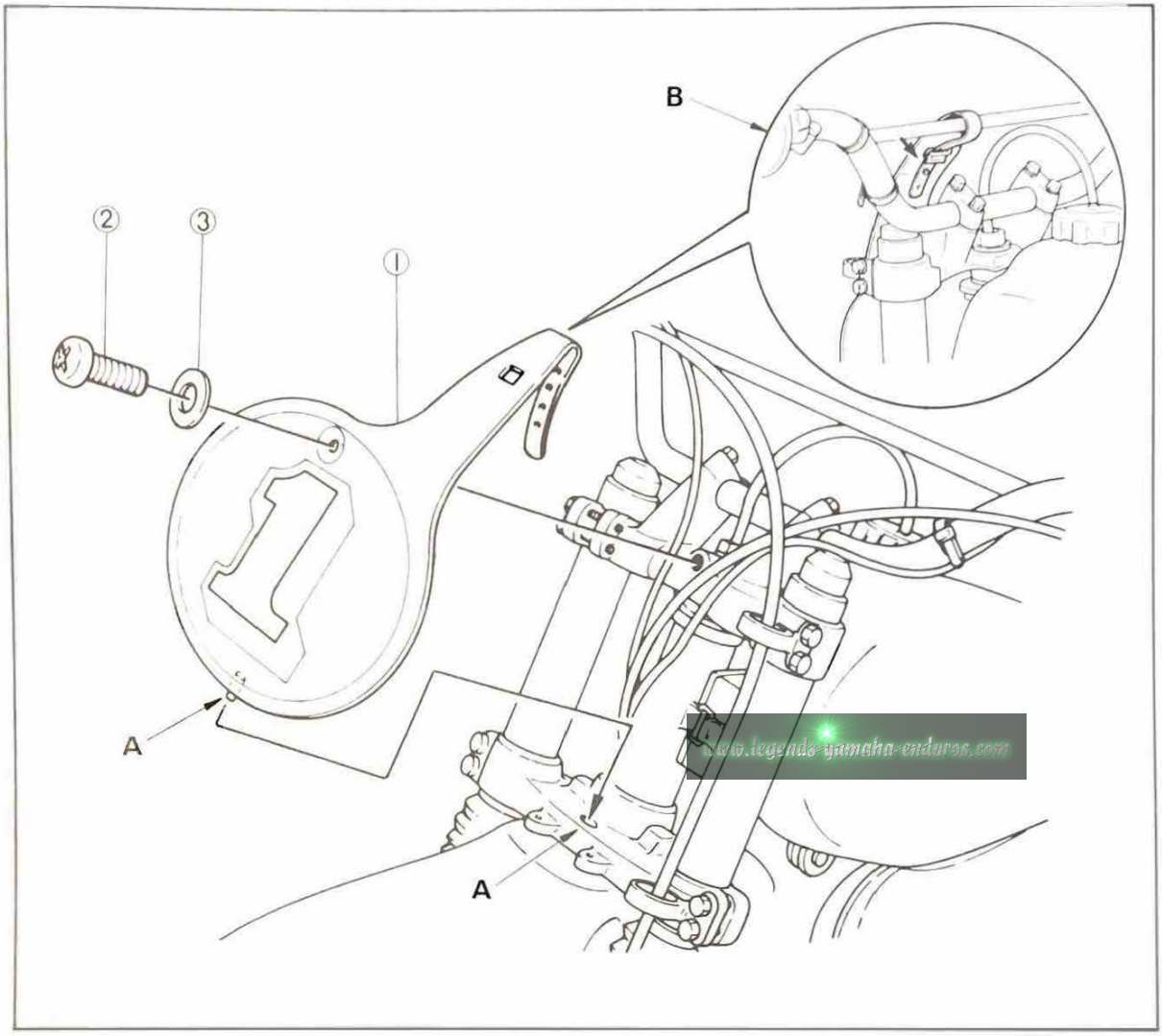
No.	Part name	Q'ty	Remarks
1	Change pedal	1	
2	Hexagon bolt	1	d = 6 mm (0.24 in), ℓ = 25 mm (0.98 in)

Setup points

A: Install the change pedal to the change shaft.

NOTE:

The change pedal is paralleled to the top end of the footrest.



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Parts list

No.	Part name	Q'ty	Remarks
1	Number plate	1	
2	Panhead screw	1	d = 6 mm (0.24 in), ℓ = 12 mm (0.47 in)
3	Plain washer	1	d = 6 mm (0.24 in)

Setup points

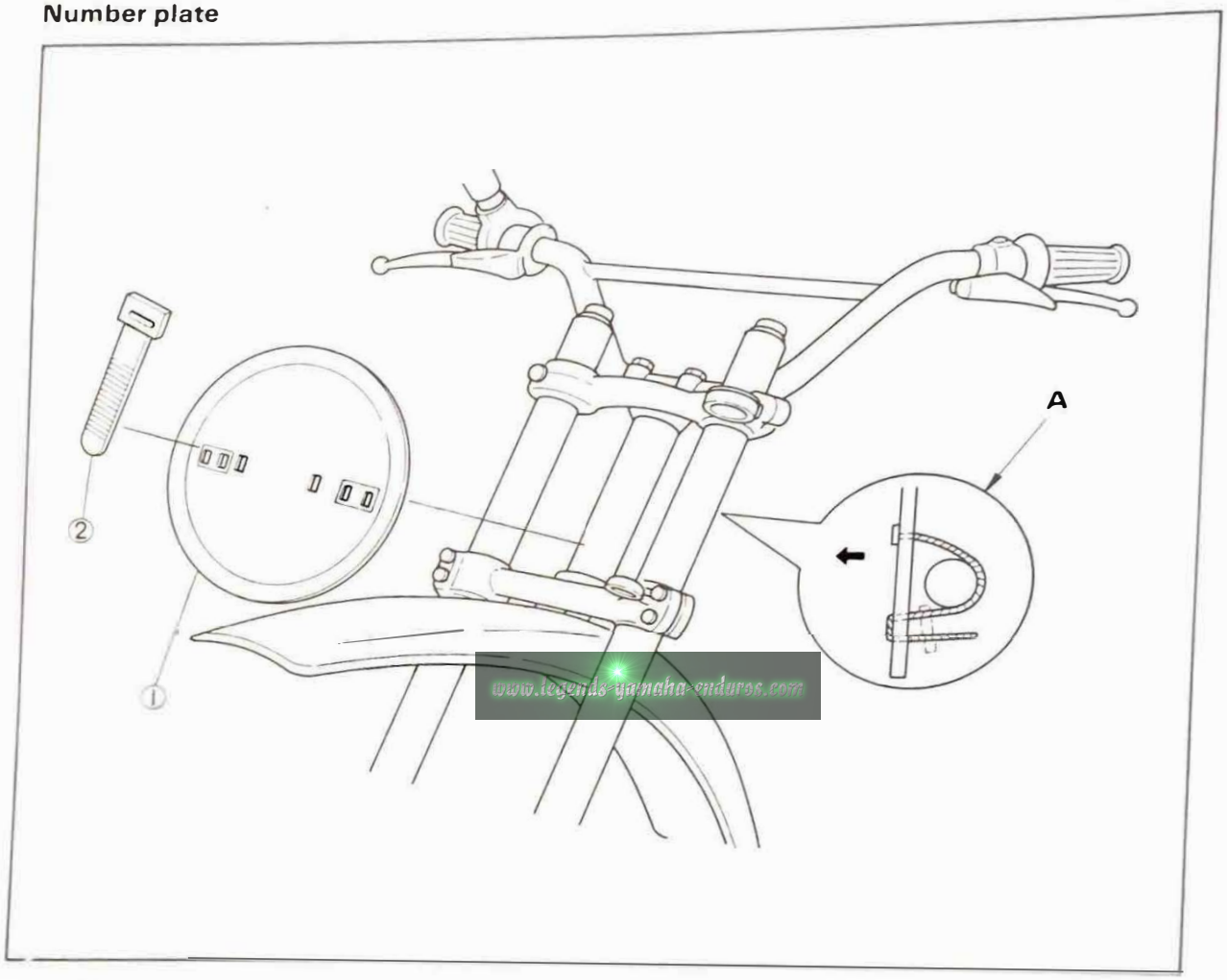
A: Fit the number plate to the lower bracket.

NOTE:

Mate the projection on the number plate with the corresponding hole in the lower bracket.

B: After fitting the under number plate part, secure the upper number plate part with the band.

Number plate



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Parts list

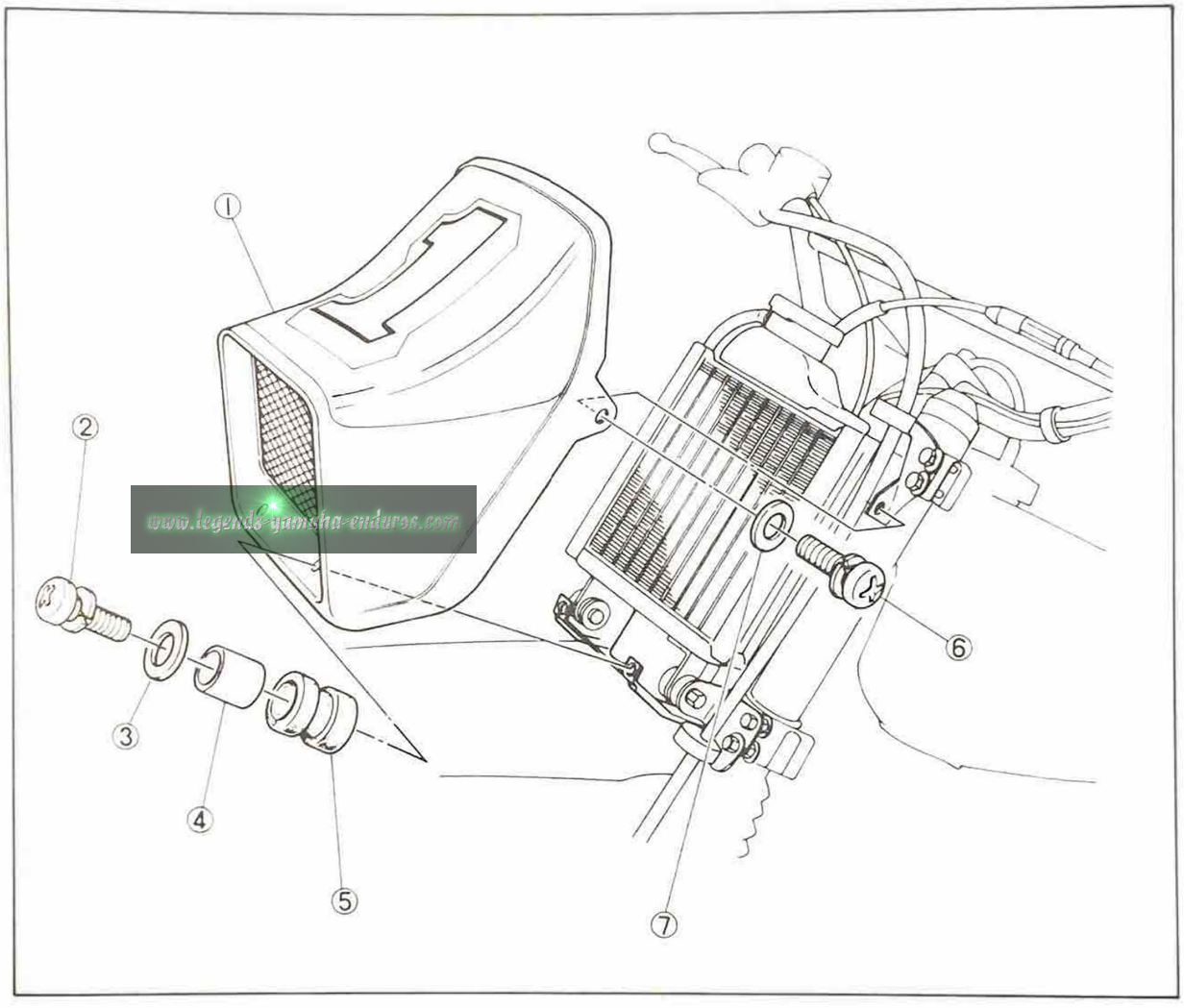
No.	Part name	Q'ty	Remarks
1	Number plate	1	
2	Band	2	Plastic

Setup point

A: Secure the number plate with two bands.

Number plate

[N.P-C]



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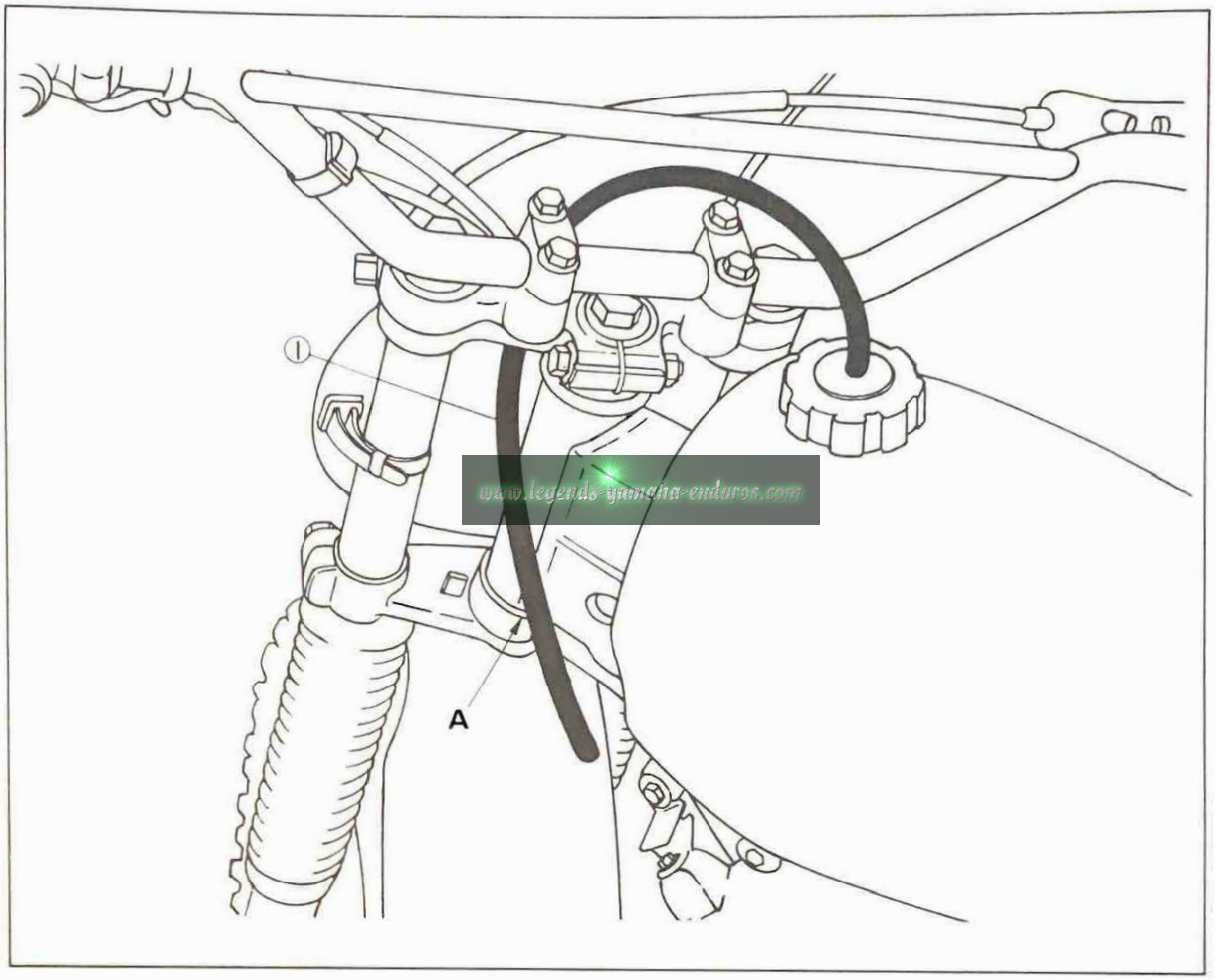
Parts list

No.	Part name	Q'ty	Remarks
1	Number plate	1	
2	Panhead screw with spring washer	2	d = 6 mm (0.24 in), ℓ = 25 mm (0.98 in)
3	Plain washer	2	d = 6 mm (0.24 in)
4	Collar	2	d = 6 mm (0.24 in)
5	Grommet	2	Rubber
6	Panhead screw with spring washer	2	d = 6 mm (0.24 in), ℓ = 15 mm (0.59 in)
7	Plain washer	2	d = 6 mm (0.24 in)

Fuel tank breather pipe [F.B-A]



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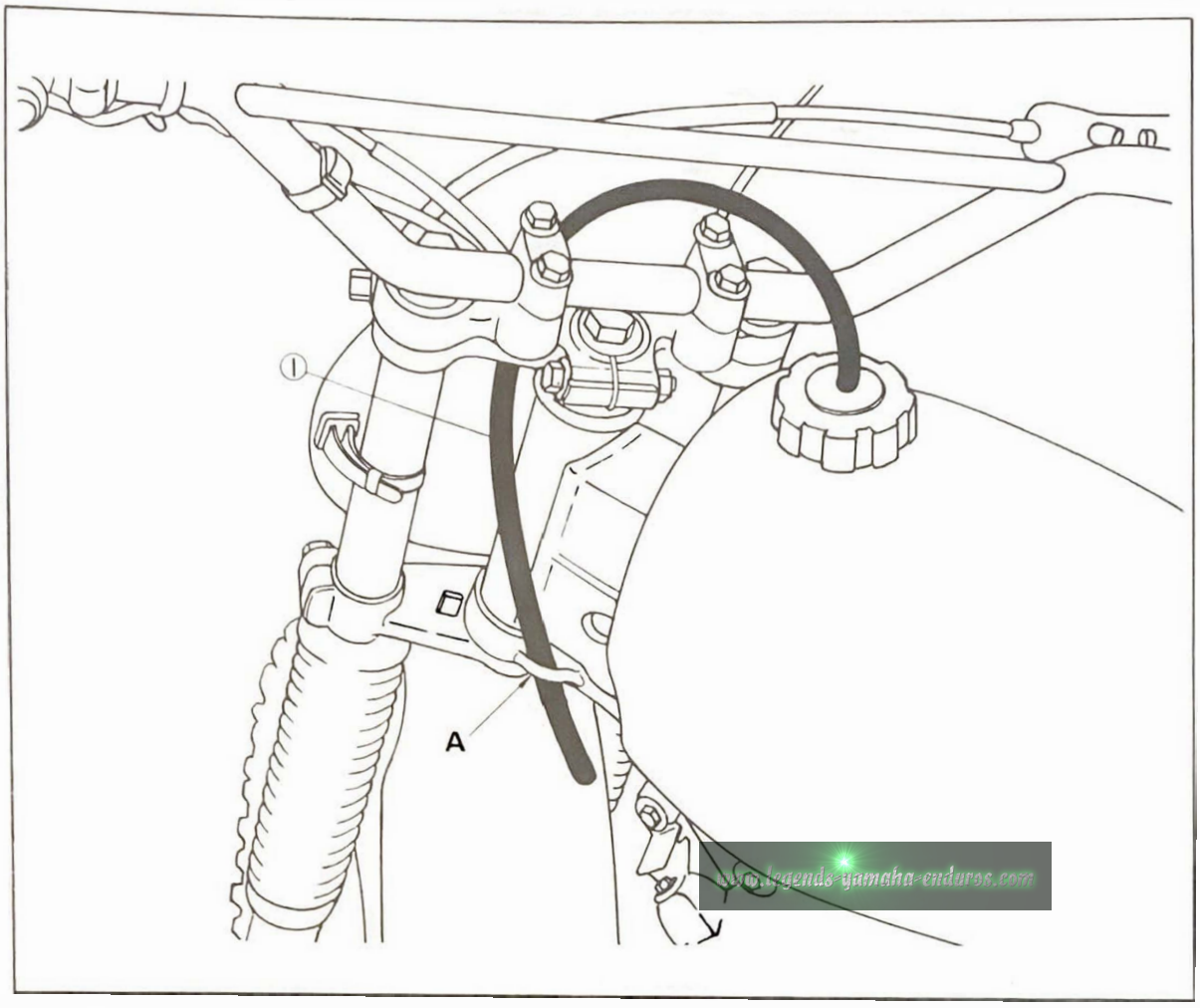
Parts list

No.	Part name	Q'ty	Remarks
1	Fuel tank breather pipe	1	Rubber

Setup points

A: Connect one end of the breather pipe to the fuel tank filler cap, and let the other end along the head pipe.

Fuel tank breather pipe [F.B-B]



Parts list

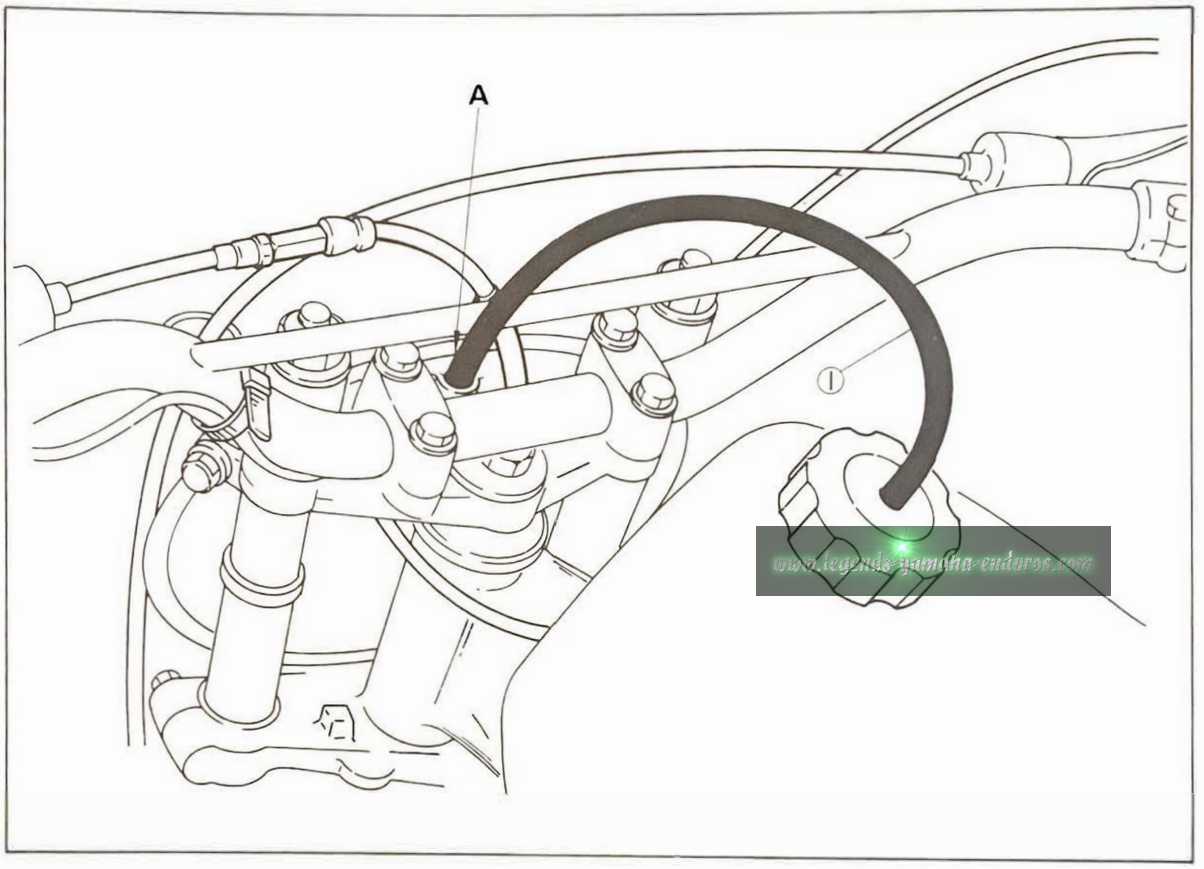
No.	Part name	Q'ty	Remarks
1	Fuel tank breather pipe	1	Rubber

Setup points

A: Connect one end of the breather pipe to the fuel tank filler cap, and insert the other end into the steering stopper holder.

Fuel tank breather pipe

[F.B-C]



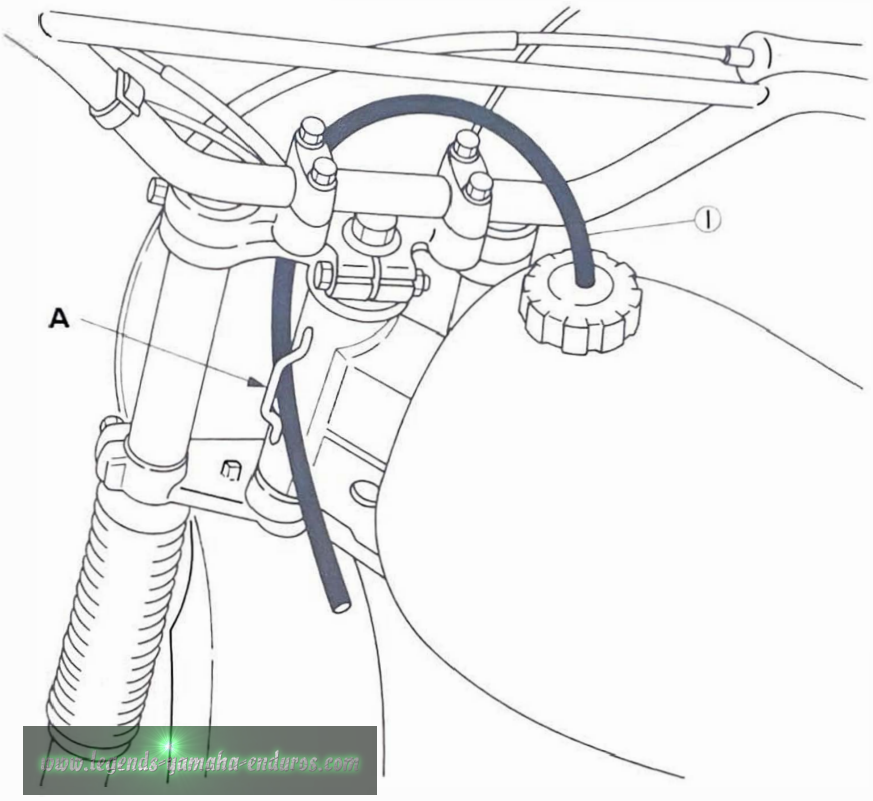
Parts list

No.	Part name	Q'ty	Remarks
1	Fuel tank breather pipe	1	Rubber

Setup points

A: Connect one end of the breather pipe to the fuel tank filler cap, and insert the other end into the number plate holder.

Fuel tank breather pipe [F.B-D]



Parts list

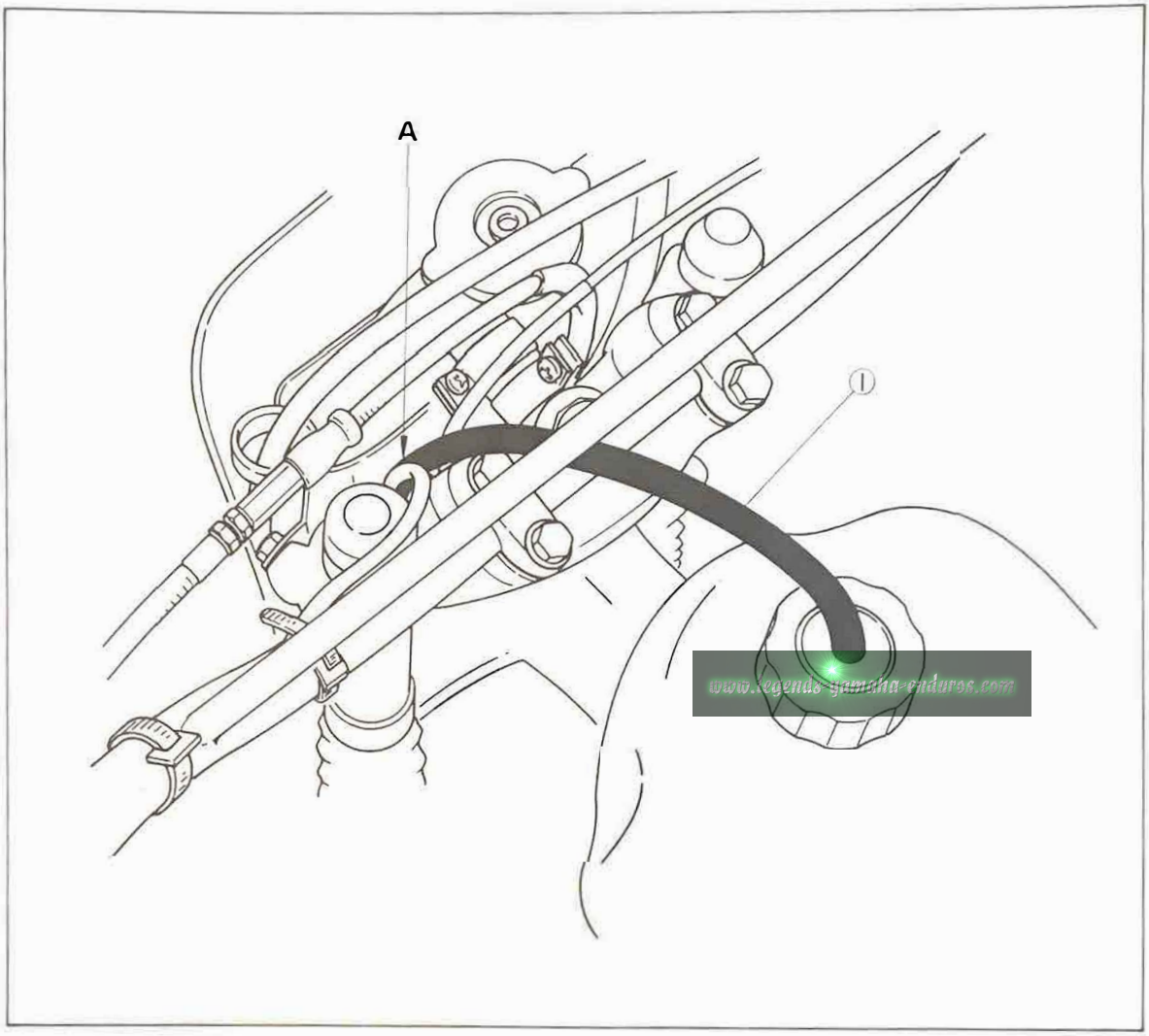
No.	Part name	Q'ty	Remarks
1	Fuel tank breather pipe	1	Rubber

Setup points

A: Connect one end of the breather pipe to the fuel tank filler cap, and insert the other end into the cable holder.

Fuel tank breather pipe

[F.B-E]



Parts list

No.	Part name	Q'ty	Remarks
1	Fuel tank breather pipe	1	Rubber

Setup points

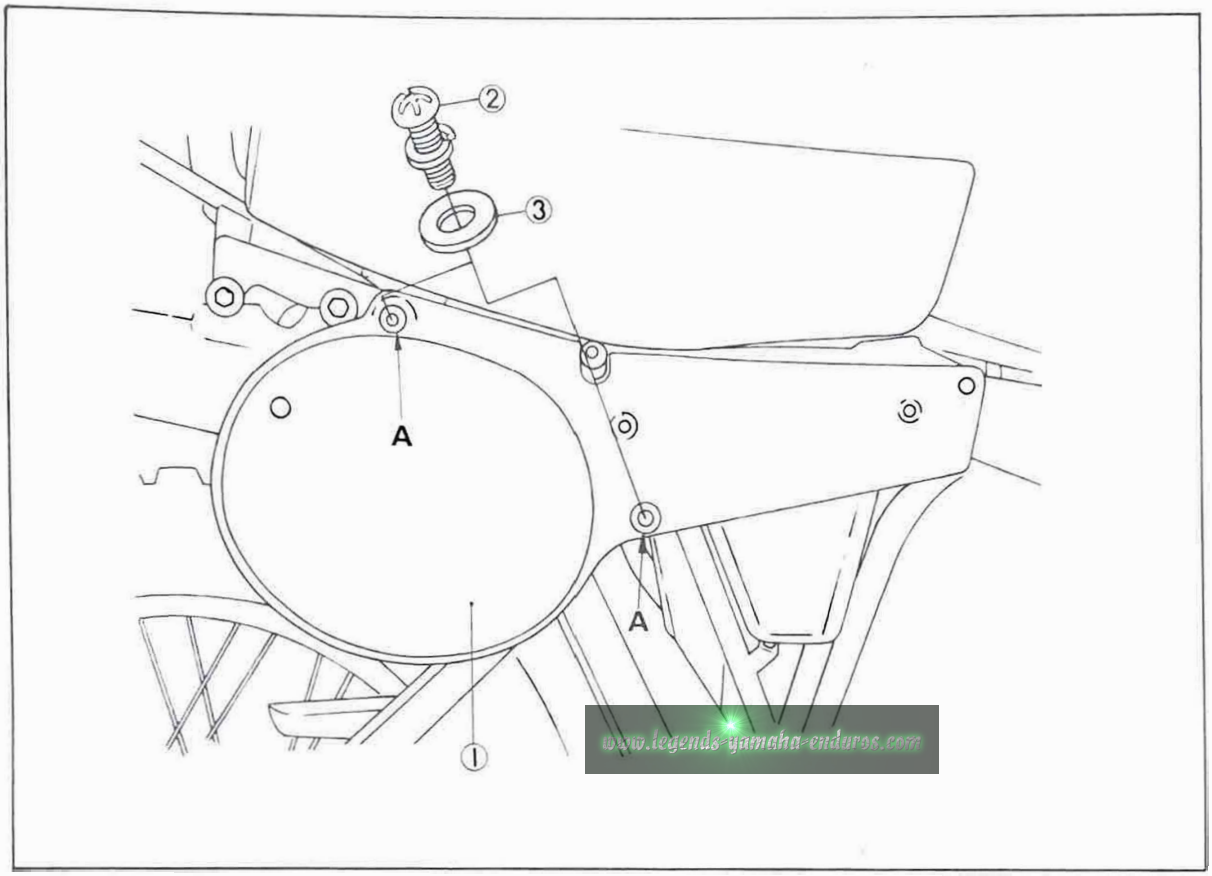
A: Connect one end of the breather pipe to the fuel tank filler cap, and insert the other end between the radiator and the handle crown.

NOTE:

Pass the breather pipe under the handlebar tension pipe.

Side cover (Right)

[S.C-A]



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Parts list

No.	Part name	Q'ty	Remarks
1	Side cover (Right)	1	
2	Panhead screw with spring washer	2	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	2	d = 6 mm (0.24 in)

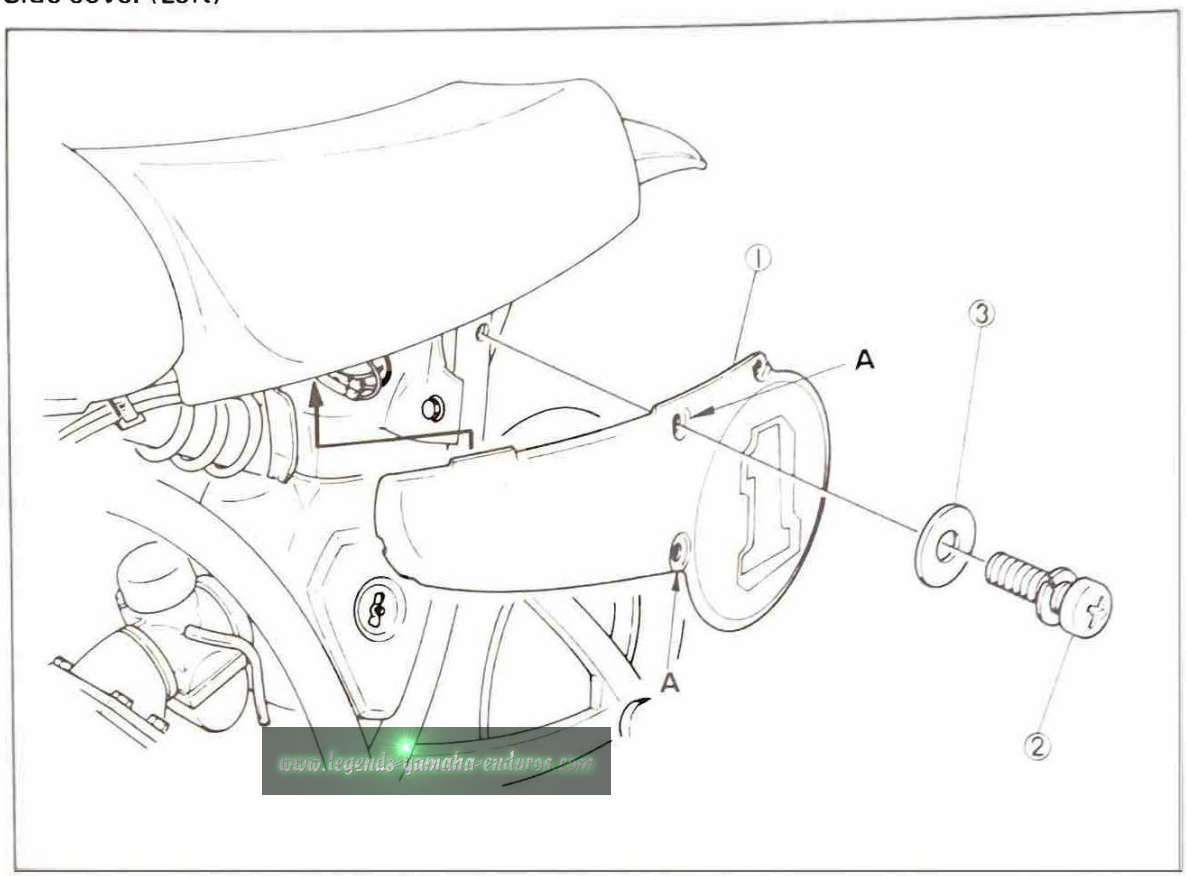
Setup points

A: Secure the side cover to the frame.

NOTE:

Be careful not to tighten it excessively.

Side cover (Left)



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Parts list

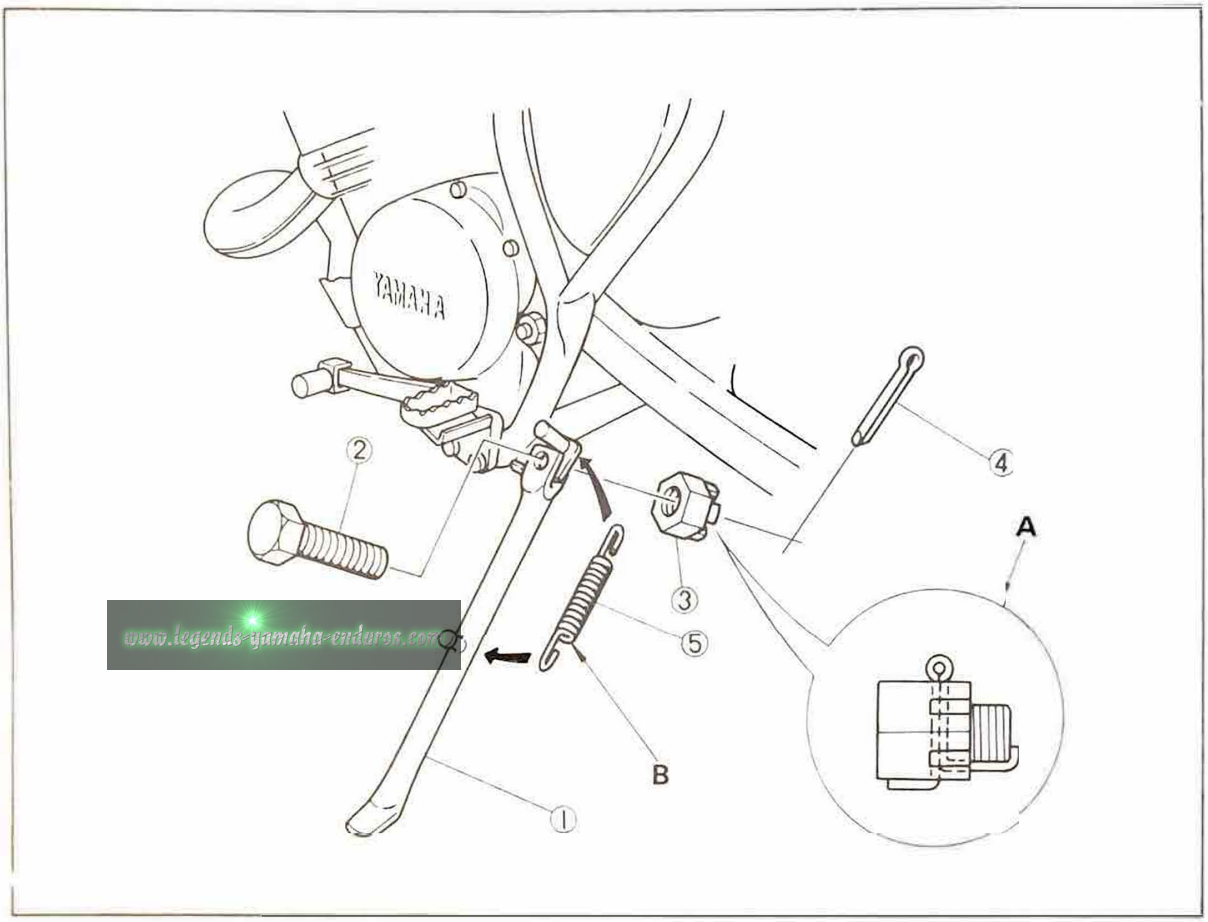
No.	Part name	Q'ty	Remarks
1	Side cover (Left)	1	
2	Panhead screw with spring washer	2	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	2	d = 6 mm (0.24 in)

Setup points

A: Secure the side cover to the frame.

NOTE:

Be careful not to tighten it excessively.



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Parts list

No.	Part name	Q'ty	Remarks
1	Side stand	1	
2	Hexagon bolt	1	d = 10 mm (0.4 in), ℓ = 16 mm (0.63 in)
3	Castle nut	1	d = 10 mm (0.4 in)
4	Cotter pin	1	d = 2 mm (0.08 in), ℓ = 25 mm (0.98 in)
5	Spring	1	

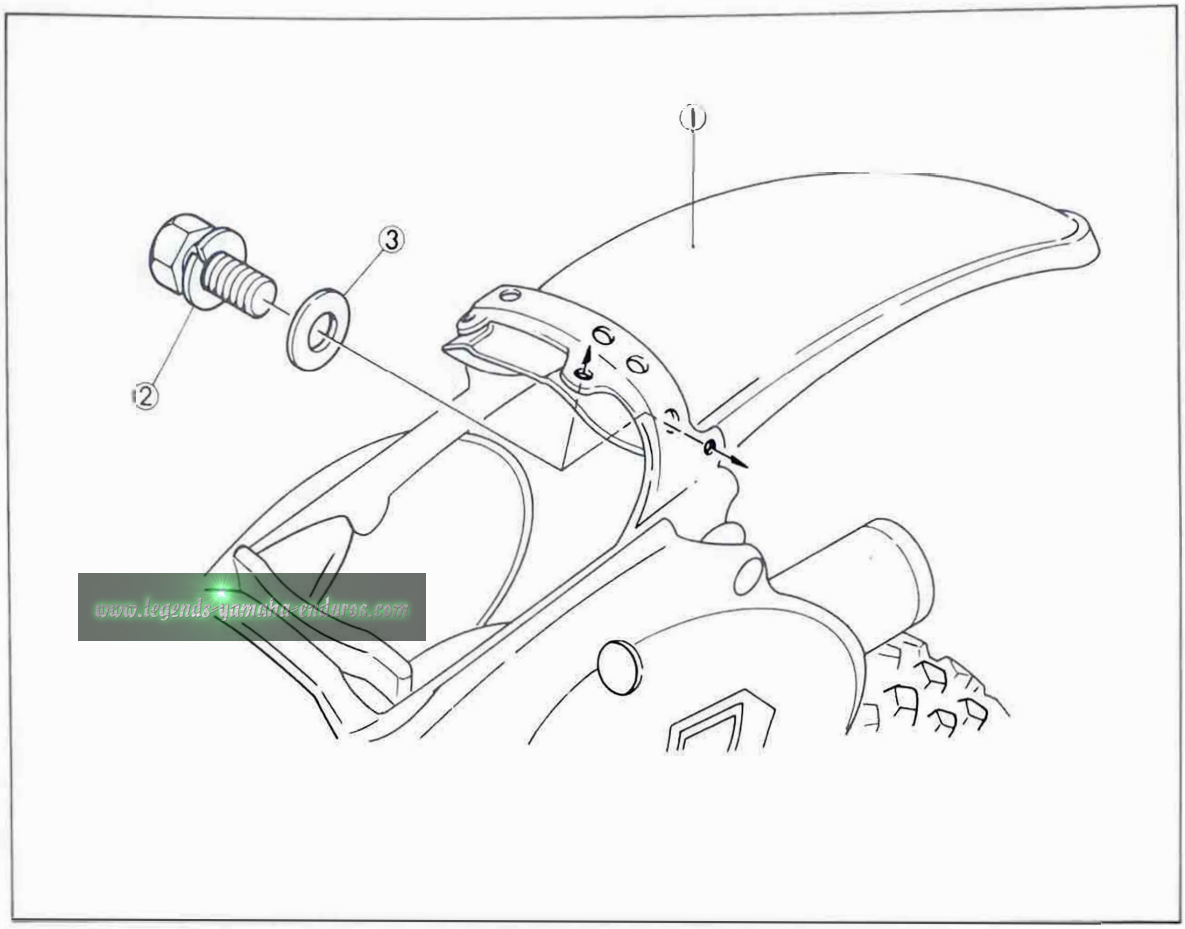
Setup points

A: Insert the cotter pin into the nut and bend the end of the cotter pin.

B: Fit the spring to the side stand.

NOTE:

Hook one end of the spring onto the projection on the side stand bracket, and hook the other end onto the projection on the side stand.



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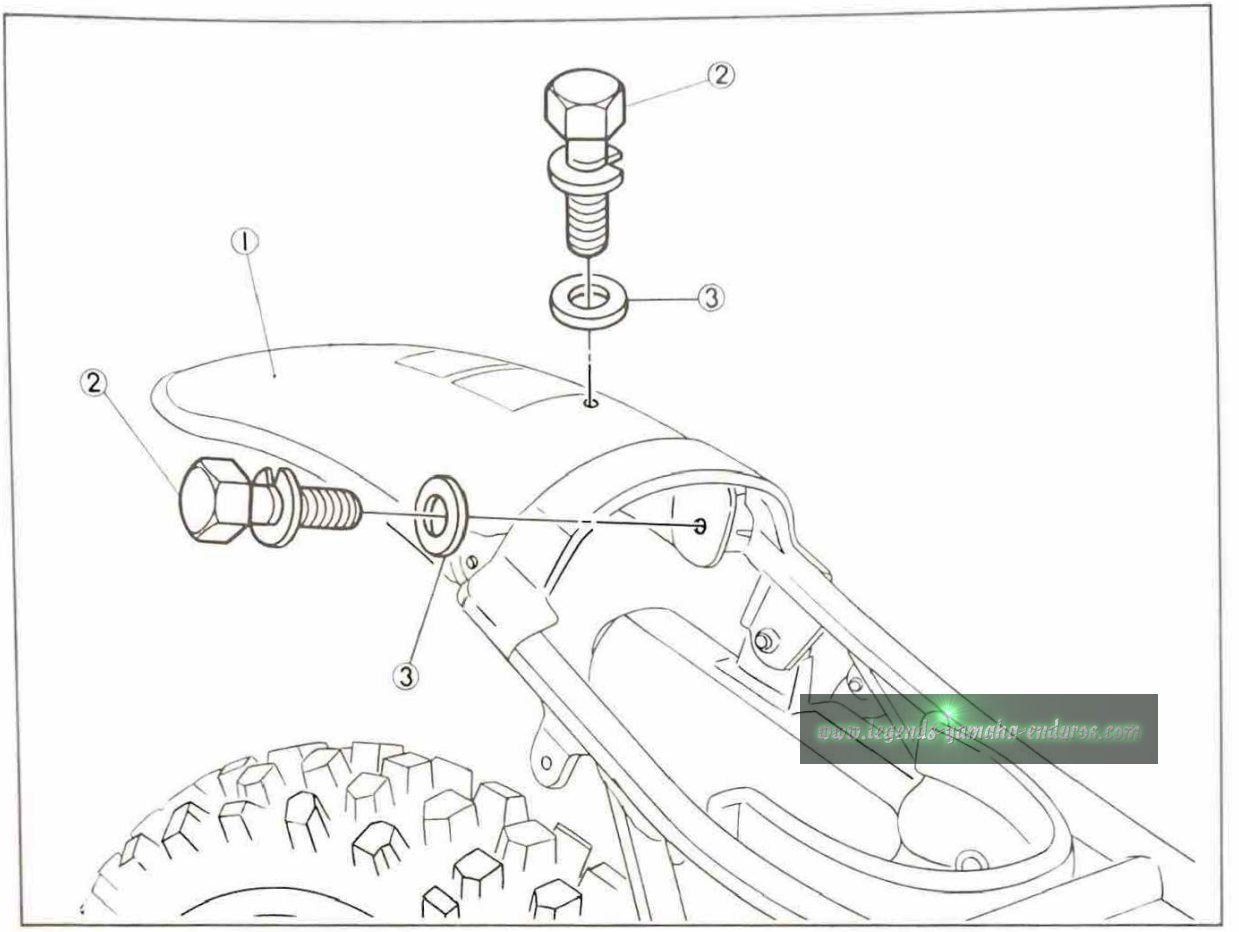
Parts list

No.	Part name	Q'ty	Remarks
1	Rear fender	1	
2	Hexagon bolt with spring washer	4	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	4	d = 6 mm (0.24 in)



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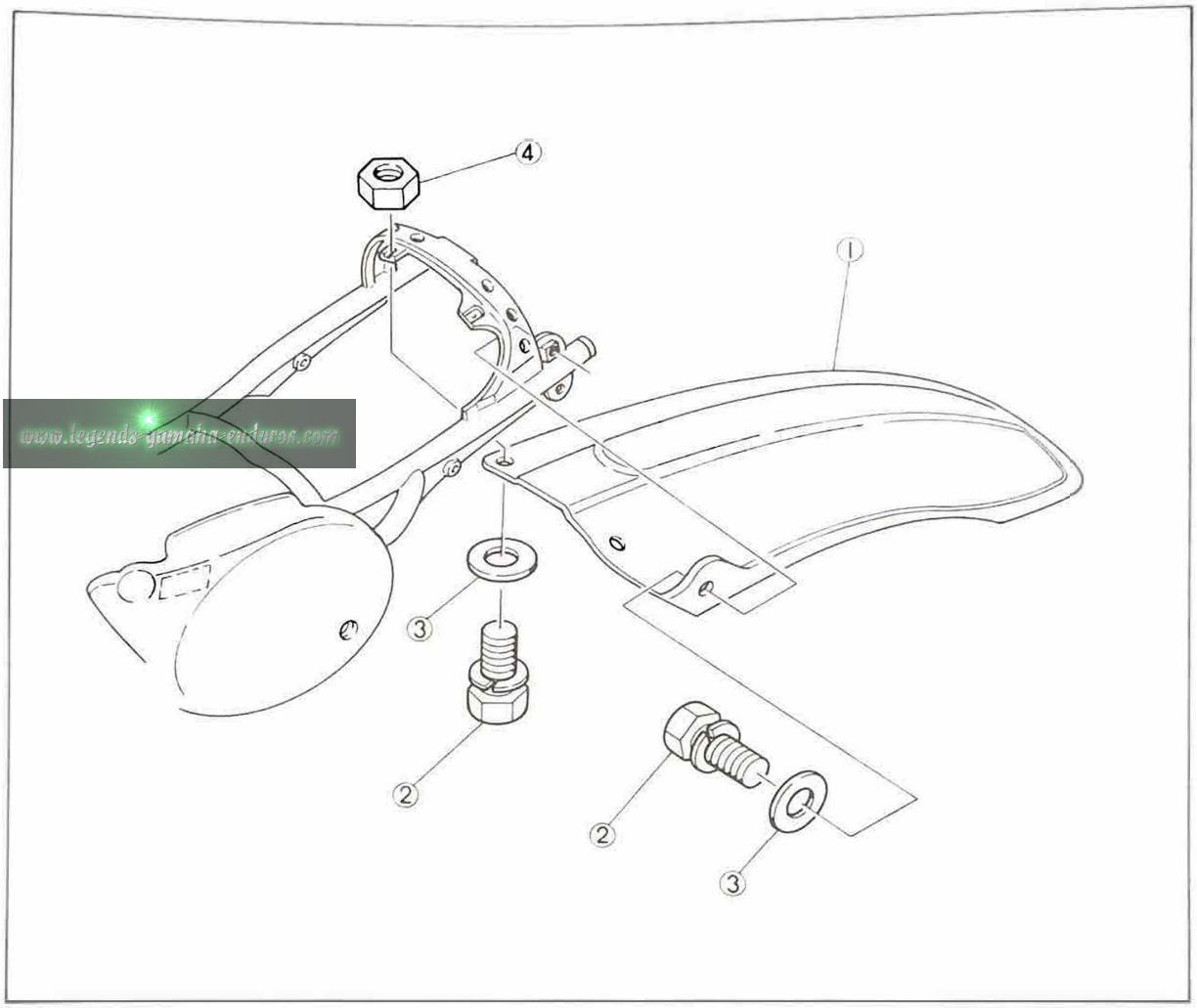
Parts list

No.	Part name	Q'ty	Remarks
1	Rear fender	1	
2	Hexagon bolt with spring washer	3	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	3	d = 6 mm (0.24 in)

Rear fender

[R.F-C]



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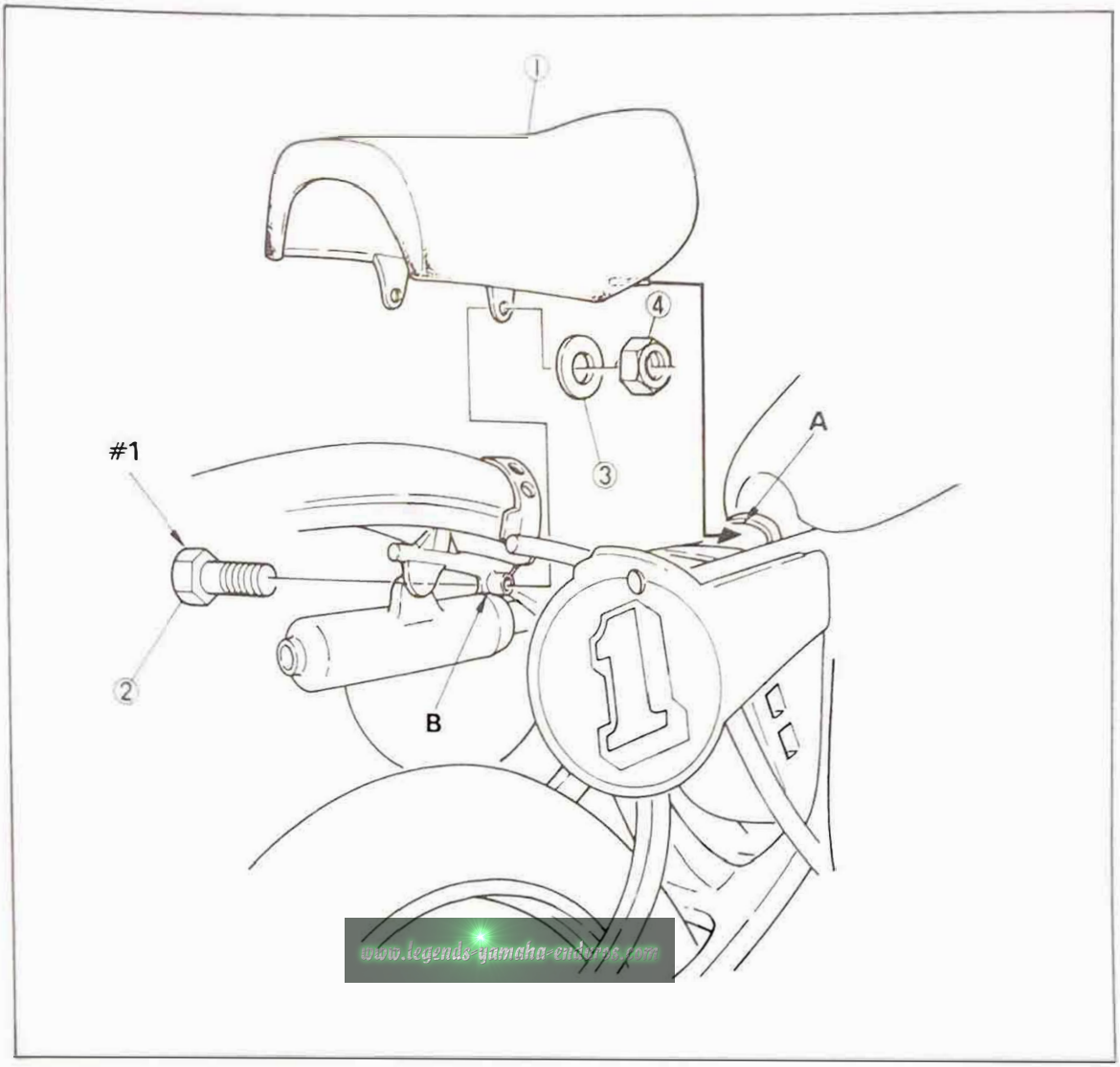
Parts list

No.	Part name	Q'ty	Remarks
1	Rear fender	1	
2	Hexagon bolt with spring washer	4	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	4	d = 6 mm (0.24 in)
4	Hexagon nut	2	d = 6 mm (0.24 in)



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Parts list

No.	Part name	Q'ty	Remarks
1	Seat	1	
2	Hexagon bolt	2	d = 6 mm (0.24 in), ℓ = 35 mm (1.38 in)
3	Plain washer	2	d = 6 mm (0.24 in)
4	Self locking nut	2	d = 6 mm (0.24 in)

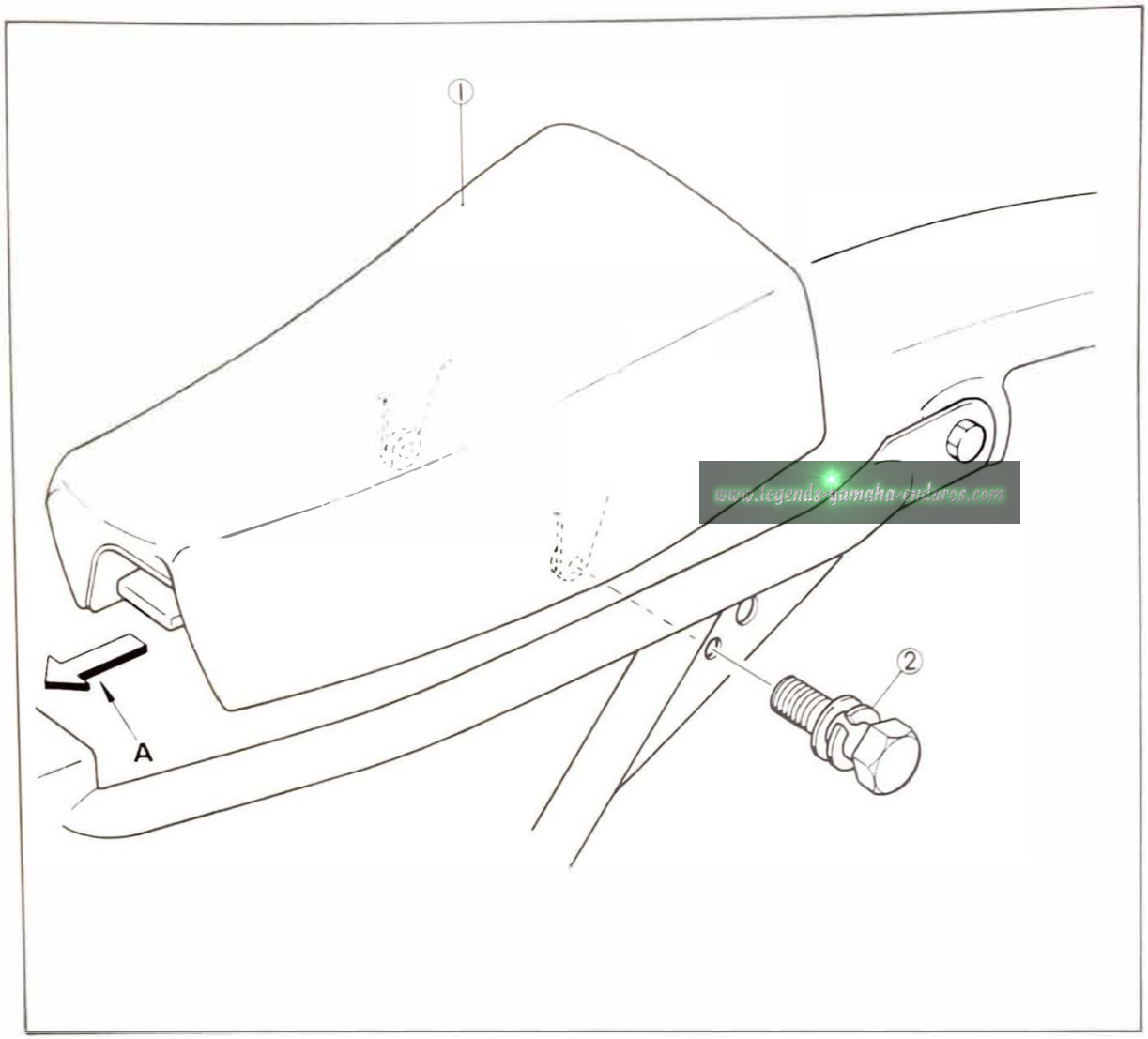
Setup points

A: Before installing the seat, put the seat tab under the frame.

B: Secure the seat to the frame.

NOTE

The bolts should be inserted from the inside to the outside.



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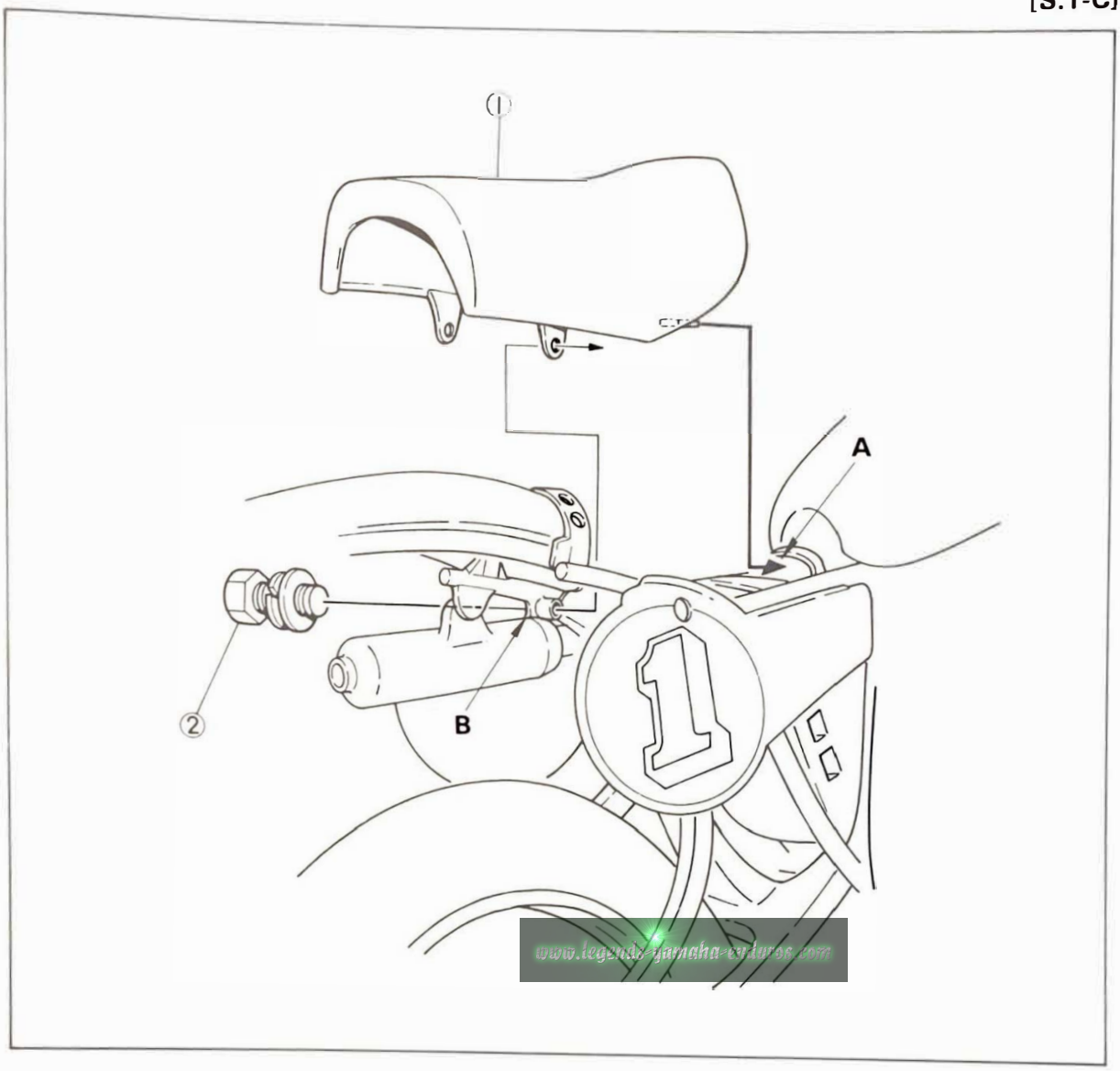
Parts list

No.	Part name	Q'ty	Remarks
1	Seat	1	
2	Hexagon bolt with spring washer and plain washer	2	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)

Setup points

A: Before installing the seat, put the seat tab under the frame.



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Parts list

No.	Part name	Q'ty	Remarks
1	Seat	1	
2	Hexagon bolt with spring washer and plain washer	2	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)

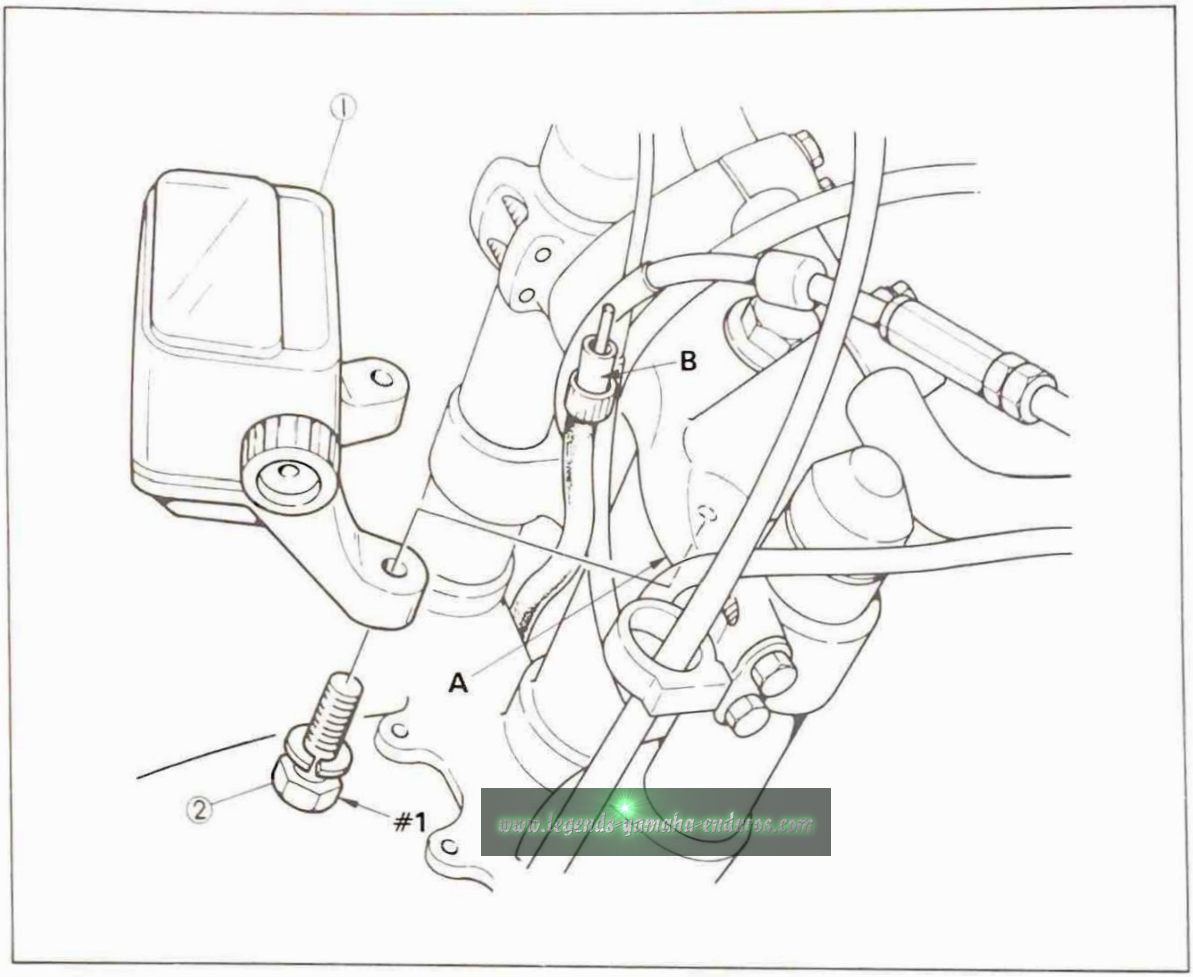
Setup points

A: Before installing the seat, put the seat tab under the frame.

B: Secure the seat to the frame.

NOTE:

The bolts should be inserted from the inside to the outside.



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Parts list

No.	Part name	Q'ty	Remarks
1	Meter assembly	1	
2	Hexagon bolt with spring washer	2	d = 6 mm (0.24 in), ℓ = 30 mm (1.18 in)

Setup points

A: Install the meter bracket under the handle crown.

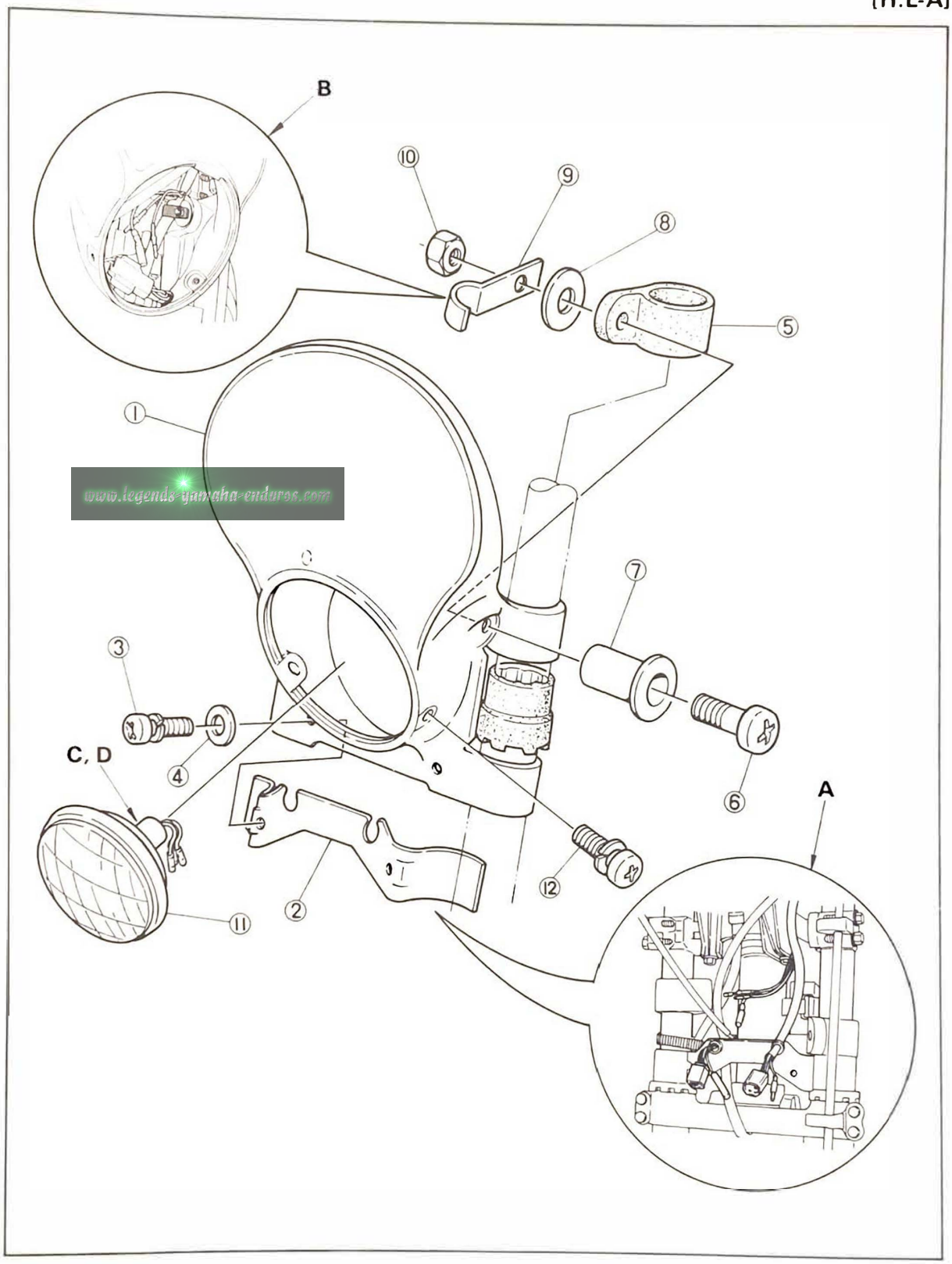
NOTE:

When installing the meter assembly, care should be used so that the leads are not pinched.

B: Connect the speedometer cable to the speedometer.

NOTE:

REFER TO "CABLE ROUTING".



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Parts list

No.	Part name	Q'ty	Remarks
1	Headlight assembly	1	
2	Headlight under bracket	1	
3	Panhead screw with spring washer	2	d = 6 mm (0.24 in), ℓ = 12 mm (0.47 in)
4	Plain washer	2	d = 6 mm (0.24 in)
5	Front fork damper	2	Rubber
6	Panhead screw	2	d = 6 mm (0.24 in), ℓ = 30 mm (1.18 in)
7	Screw collar	2	d = 6 mm (0.24 in)
8	Plain washer	2	d = 6 mm (0.24 in)
9	Clamp	1	
10	Self locking nut	2	d = 6 mm (0.24 in)

Setup points

A: Place the headlight under bracket between the front forks, and then install the grommet, which is attached to the wire harness, on the headlight under bracket.

B: Clamp the wire harness by the clamp.

C: Connect the headlight leads to the wire harness with the identical color.

D: When installing the headlight lens unit, care should be used so that lead are not pinched.

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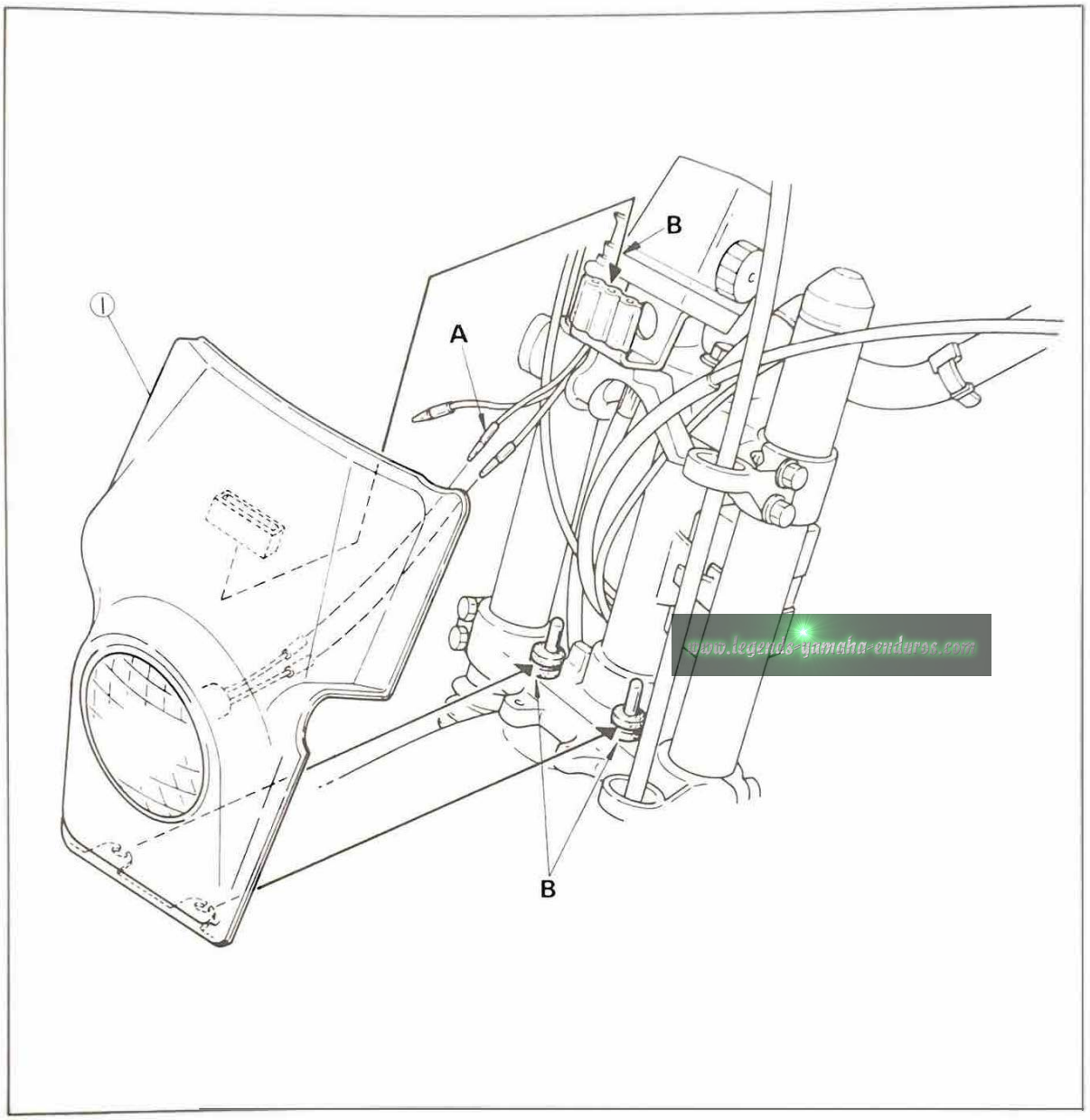

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Parts list

No.	Part name	Q'ty	Remarks
1	Headlight assembly	1	

Setup points

A: Connect the headlight leads to the wire harness with the identical color.

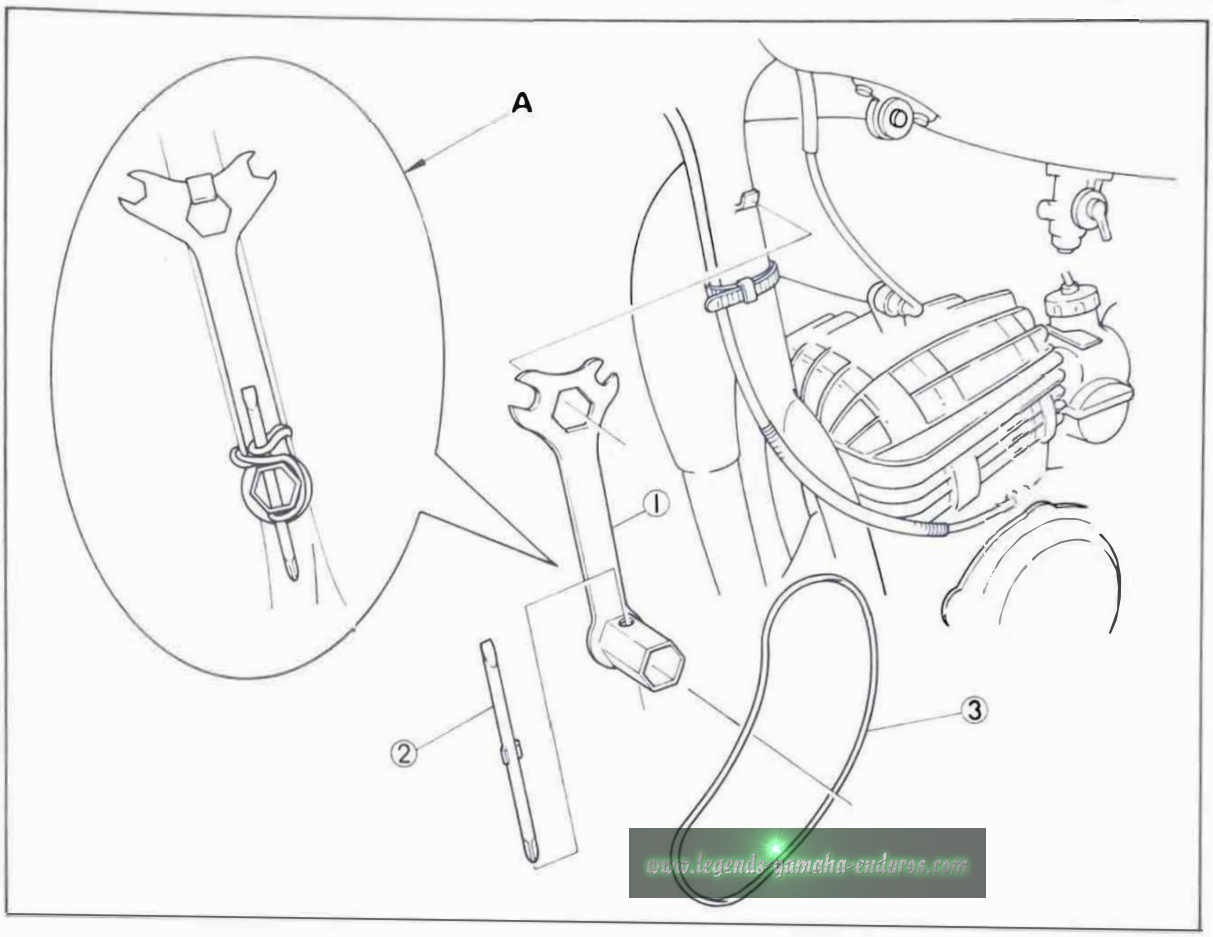
B: Secure the headlight assembly to the frame.

NOTE:

First fitting the upper part of the headlight, and then fitting the lower part.

Tool kit

[T.K-A]



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Parts list

No.	Part name	Q'ty	Remarks
1	Special wrench	1	
2	Screwdriver bit	1	
3	Band	1	Rubber

Setup points

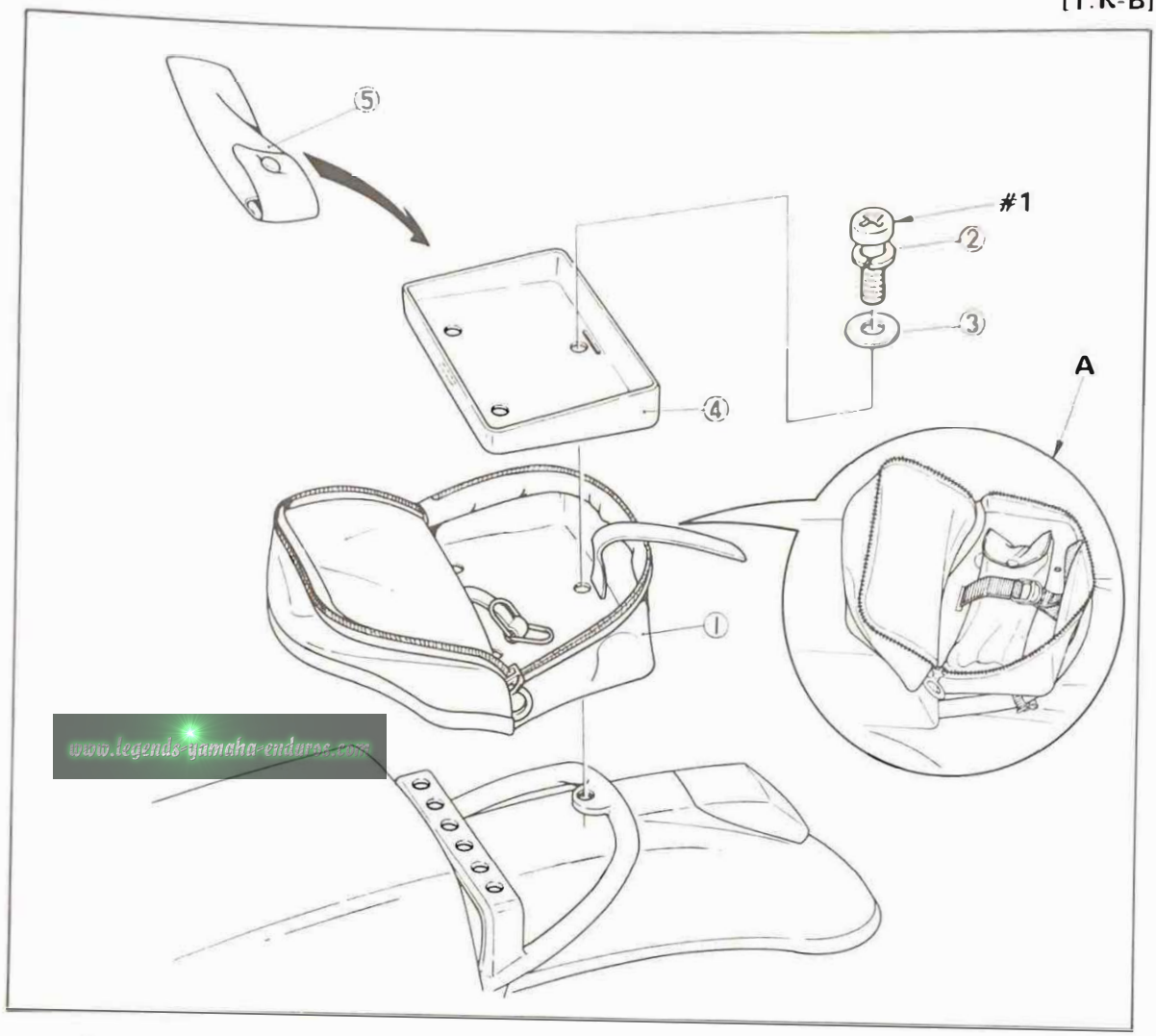
A: Install the tool kit to the frame.

NOTE:

Before securing the special wrench, hook the wrench onto the projection on the frame. Next, insert a screwdriver into the wrench, and then secure the wrench with a band.

Tool kit

[T.K-B]



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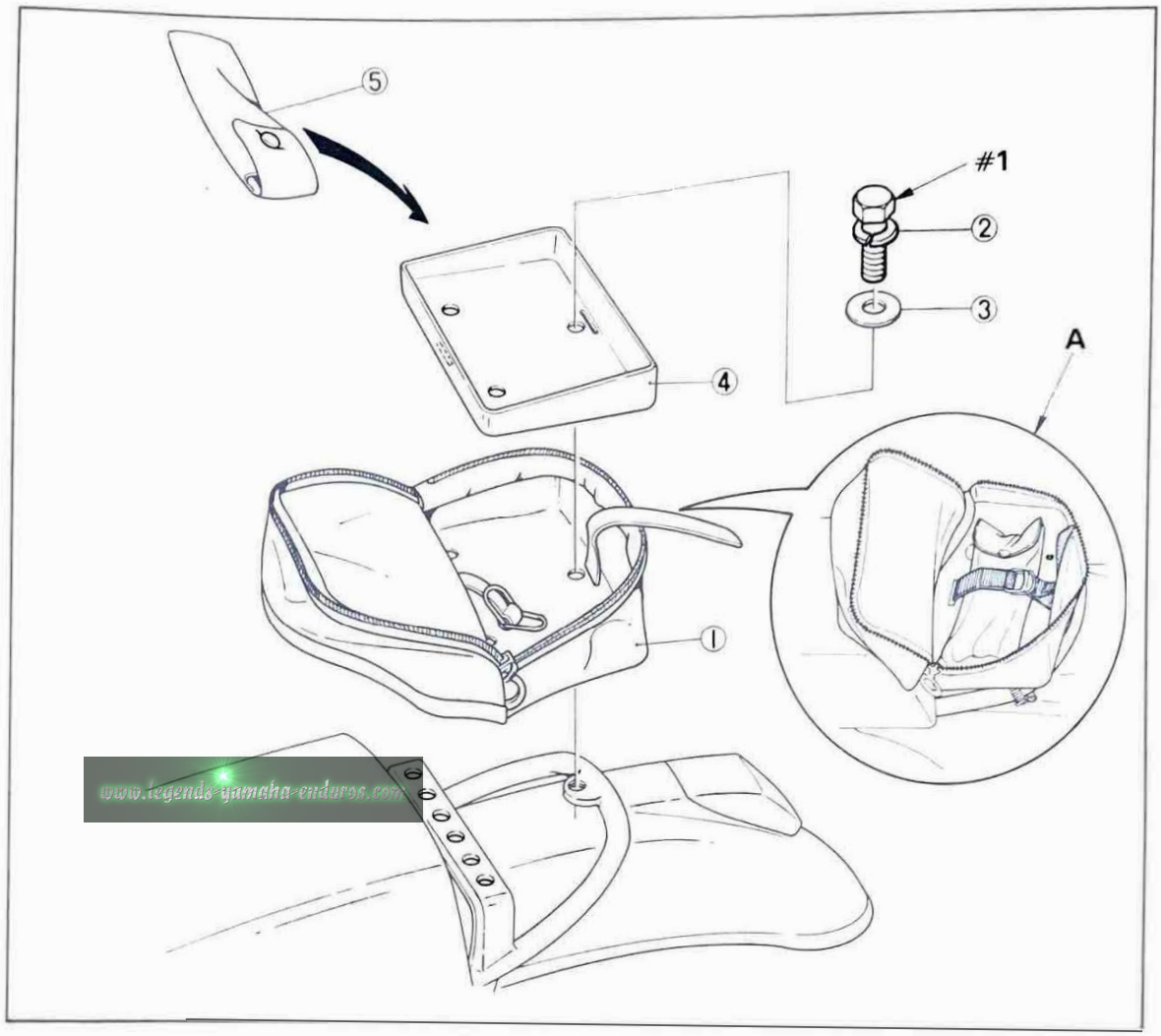
Parts list

No.	Part name	Q'ty	Remarks
1	Carrier box	1	
2	Panhead screw with spring washer	3	d = 6 mm (0.24 in), ℓ = 18 mm (0.71 in)
3	Plain washer	3	d = 6 mm (0.24 in)
4	Carrier box bracket	1	
5	Tool kit	1	

Setup points

A: Before zipping up the carrier box, secure the tool kit with a band.



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Parts list

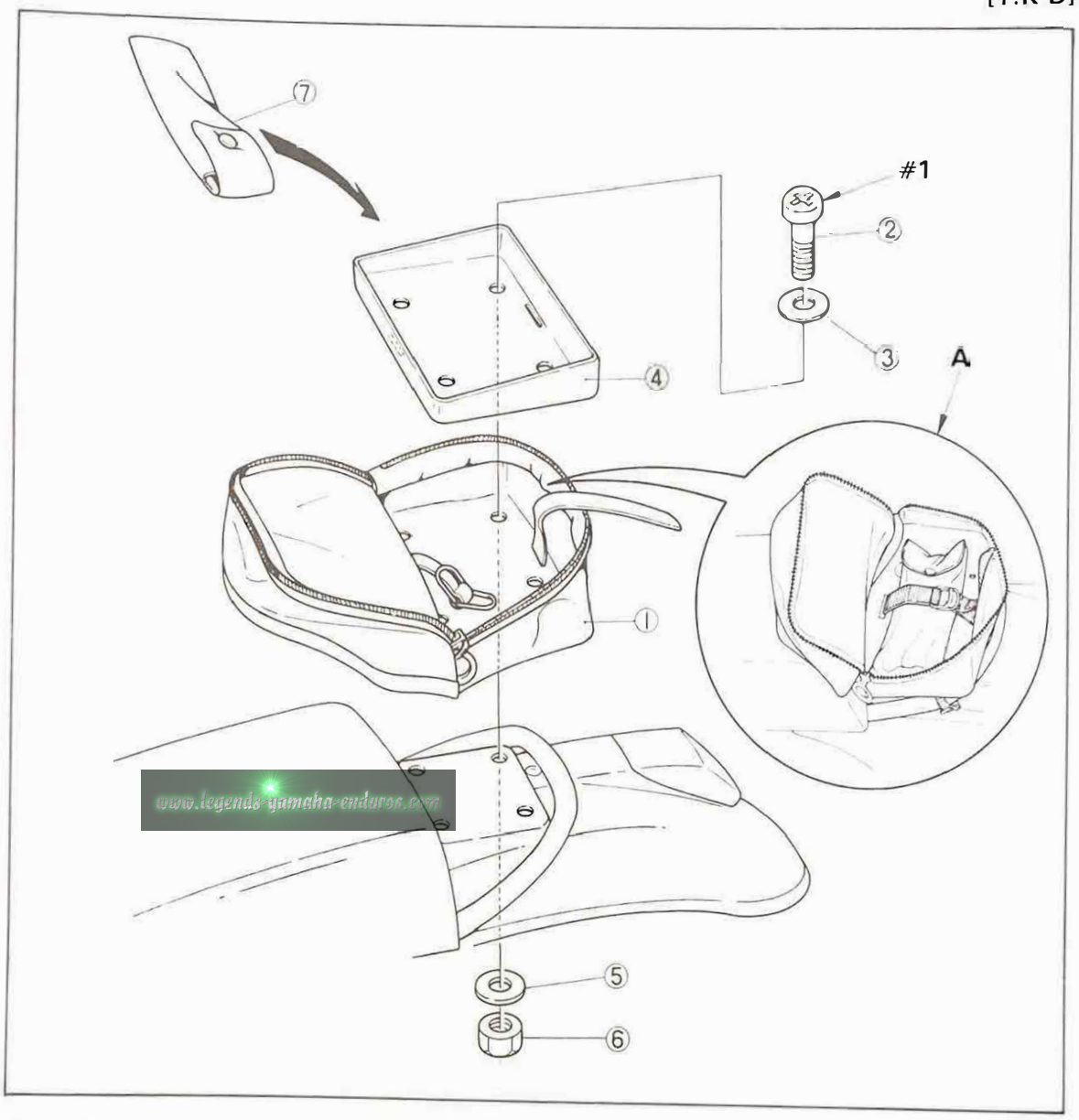
No.	Part name	Q'ty	Remarks
1	Carrier box	1	
2	Hexagon bolt with spring washer	3	d = 6 mm (0.24 in), ℓ = 18 mm (0.71 in)
3	Plain washer	3	d = 6 mm (0.24 in)
4	Carrier box bracket	1	
5	Tool kit	1	

Setup points

A: Before zipping up the carrier box, secure the tool kit with a band.

Tool kit

[T.K-D]



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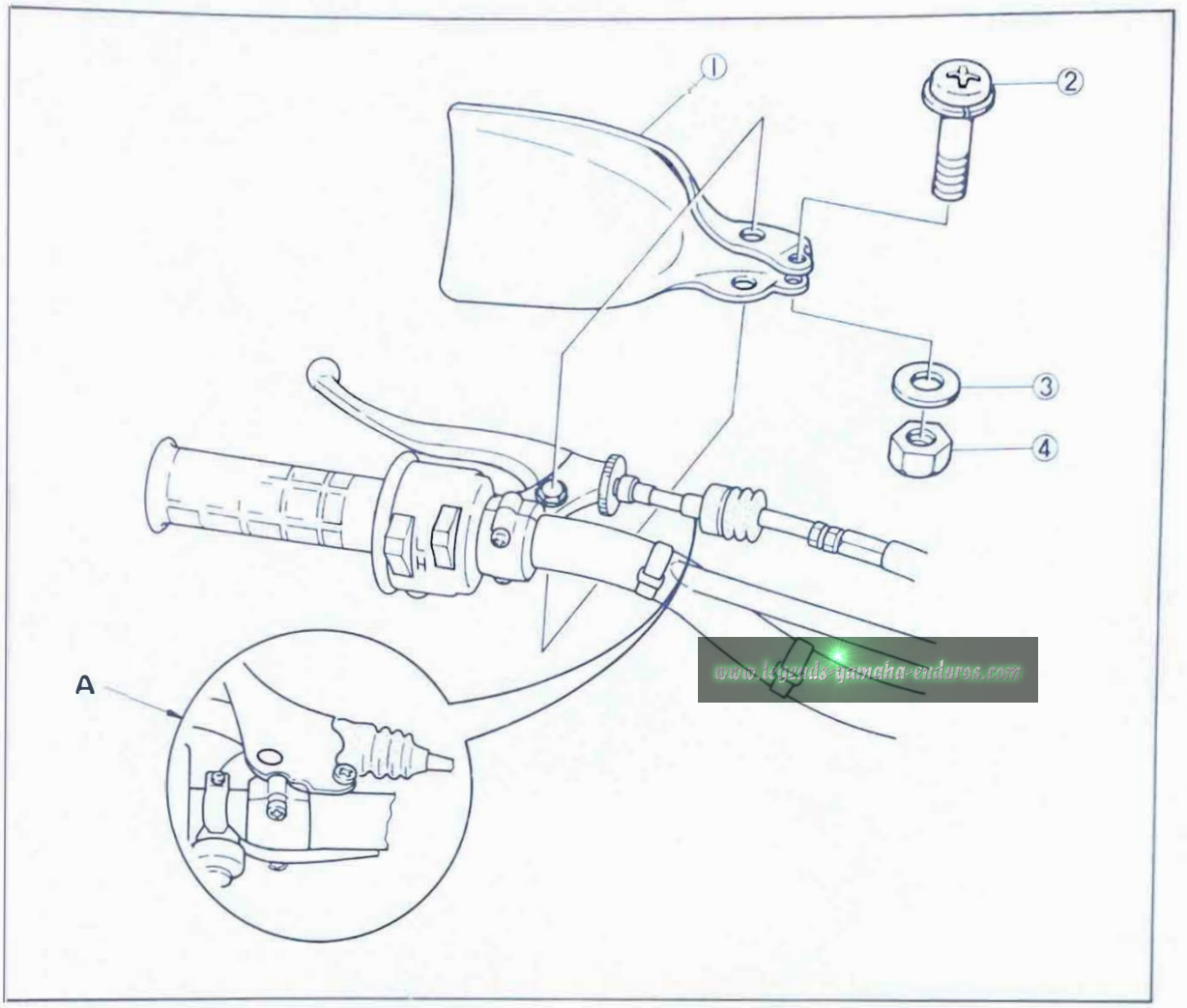
Parts list

No.	Part name	Q'ty	Remarks
1	Carrier box	1	
2	Panhead screw	4	d = 6 mm (0.24 in), ℓ = 20 mm (0.79 in)
3	Plain washer	4	d = 6 mm (0.24 in)
4	Carrier box bracket	1	
5	Plain washer	4	d = 6 mm (0.24 in)
6	Hexagon nut	4	d = 6 mm (0.24 in)
7	Tool kit	1	

Setup points

A: Before zipping up the carrier box, secure the tool kit with a band.

Bush guard [B.G-A]



Parts list

No.	Part name	Q'ty	Remarks
1	Bush guard (Left and Right)	2	
2	Panhead screw with spring washer	2	d = 6 mm (0.24 in), ℓ = 16 mm (0.63 in)
3	Plain washer	2	d = 6 mm (0.24 in)
4	Hexagon nut	2	d = 6 mm (0.24 in)

Setup points

A: After installing the bush guard, cover the bush guard end with the cover.

6 APPENDIX

SECTION NAME	ABBREV.	Available type (s)
Front brake adjustment	F.B.	Type A
Rear brake adjustment	R.B.	Type A
Rear brake pedal position adjustment	R.P.	Type A
Clutch adjustment	C.A.	Type A, B
Throttle cable adjustment	T.C.	Type A
Fuel draining	F.D.	Type A
Transmission oil level check	T.L.	Type A
Transmission oil replacement	T.R.	Type A
Drive chain tension check	D.C.	Type A, B
Troubleshooting	T.S.	Type A

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PREDELIVERY SERVICE INSTRUCTIONS

The servicing procedures must be made before delivery of the machine to a customer.
This section deals with the main points only. For details, refer to the Owner's service manual for this model.

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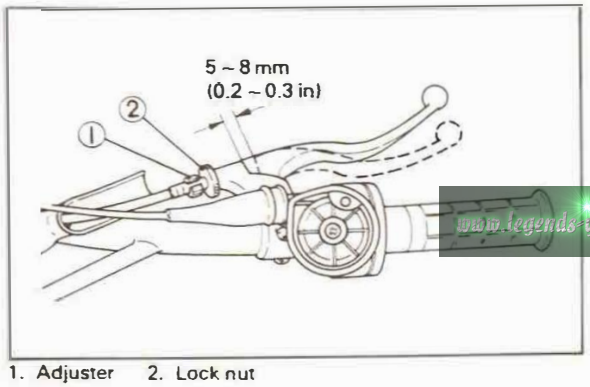
Front brake adjustment

The front brake should be adjusted to suit the rider's preference, but a free play at the lever pivot should be 5 ~ 8 mm (0.2 ~ 0.3 in). Adjustment is made at either of the two places; the lever holder or the brake hub.

1. Loosen the lock nut.
2. Turn the adjuster in or out until the adjustment is suitable.
3. Tighten the lock nut.



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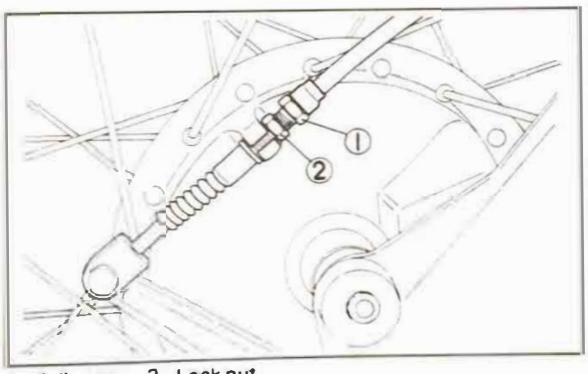
1. Adjuster 2. Lock nut

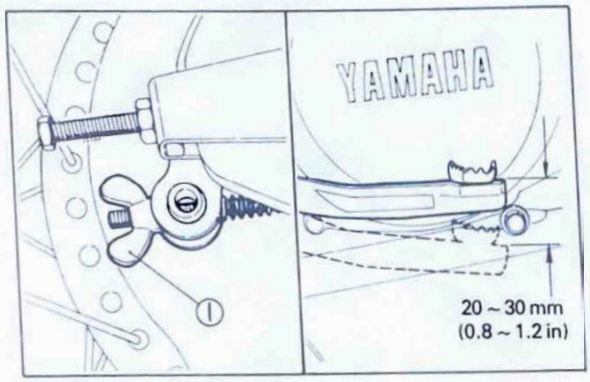


1. Adjuster 2. Lock nut

Rear brake adjustment

The rear brake should be adjusted to suit the rider's preference, but a free play at the end of the brake pedal should be 20 ~ 30 mm (0.8 ~ 1.2 in).

1. Turn the adjuster on the brake rod clockwise to reduce the play or counterclockwise to increase the play, until the adjustment is suitable.



1. Adjuster

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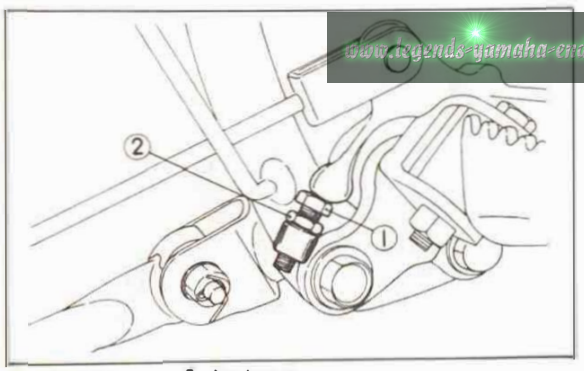
Rear brake pedal position adjustment

The rear brake pedal position should be adjusted to suit the rider's preference.

1. Loosen the adjuster on the brake rod.
2. Loosen the lock nut, and then turn the adjuster in or out until the adjustment is suitable.
3. Tighten the lock nut.

WARNING:

Always adjust the rear brake free play after the pedal position adjustment.



1. Adjuster 2. Lock nut

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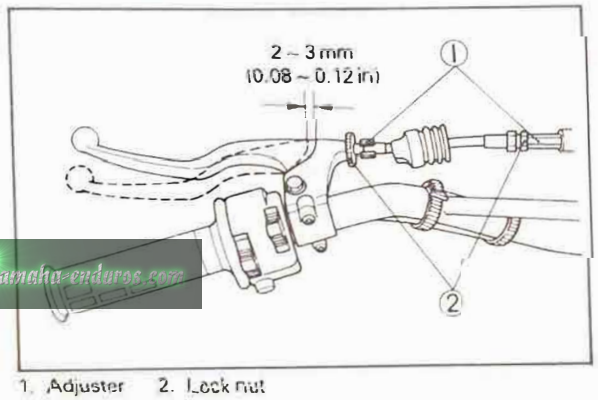
Clutch adjustment

The clutch should be adjusted to suit the rider's preference, but a free play at the lever pivot should be 2 ~ 3 mm (0.08 ~ 0.12 in). Adjustment is made at two places, though normally the adjustment is required only at lever holder.

1. Loosen either the clutch lever lock nut or the clutch cable lock nut.
2. Turn either the clutch lever adjuster or the clutch cable adjuster in or out until the adjustment is suitable.
3. Tighten the lock nut.



1. Adjuster 2. Lock nut

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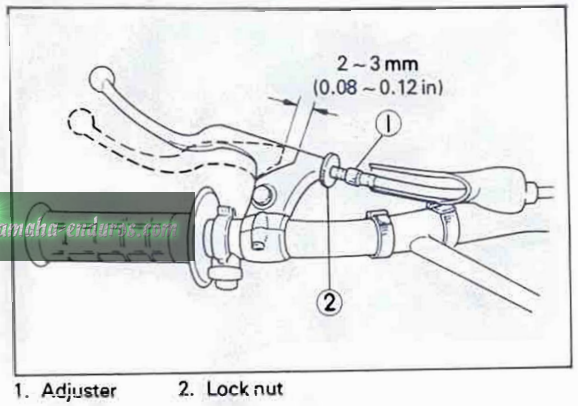
Clutch adjustment

The clutch should be adjusted to suit the rider's preference, but a free play at the lever pivot should be 2 ~ 3 mm (0.08 ~ 0.12 in). Adjustment is made at two places, though normally the adjustment is required only at lever holder.

1. Loosen the lock nut.
2. Turn the adjuster in or out until the adjustment is suitable.
3. Tighten the lock nut.



1. Adjuster 2. Lock nut

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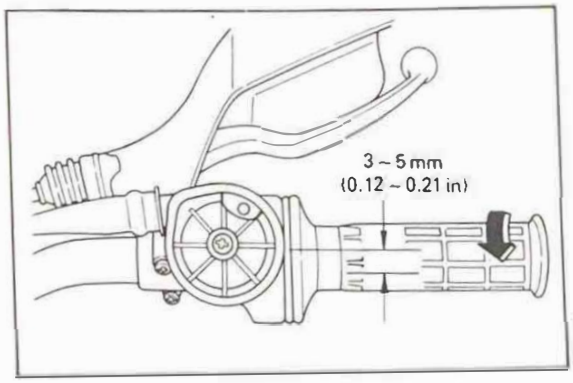
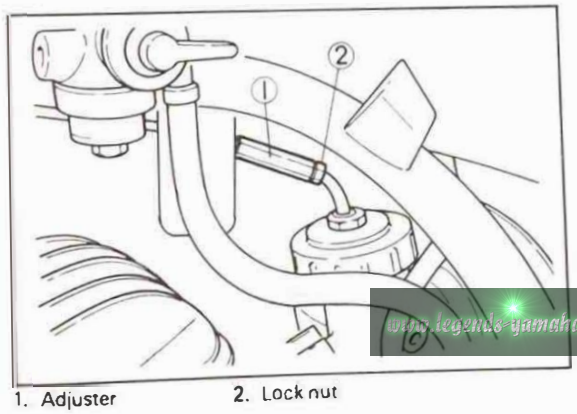
Throttle cable adjustment

The throttle cable should be adjusted to suit the rider's preference, but a free play at grip flange should be 3 ~ 5 mm (0.12 ~ 0.21 in).

1. Loosen the lock nut.
2. Turn the adjuster in or out until the adjustment is suitable.
3. Tighten the lock nut.





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1. Adjuster 2. Lock nut

Fuel draining

1. Put a rag under the carburetor so fuel does not contact the crankcase.
2. Loosen the cover bolt and drain the standing fuel.

WARNING:

FUEL IS HIGHLY FLAMMABLE:

- **Always turn off the engine when draining.**
- **Take care not to spill any fuel on the engine or exhaust pipes/mufflers when draining.**
- **Never drain fuel while smoking or in the vicinity of an open flame.**

3. Retighten the cover bolt securely.

1. Cover bolt

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Transmission oil level check

1. Place the machine on a level place. Warm up the engine for several minutes.

NOTE:

Be sure the machine is positioned straight up when checking the oil level.

2. Remove the oil level checking bolt and check the oil level whether it is up to the hole bottom brim. If it is not up to this level, replenish oil.

CAUTION:

Do not add any chemical additives to the oil. The transmission oil also lubricates the clutch, and additives could cause the clutch to slip.

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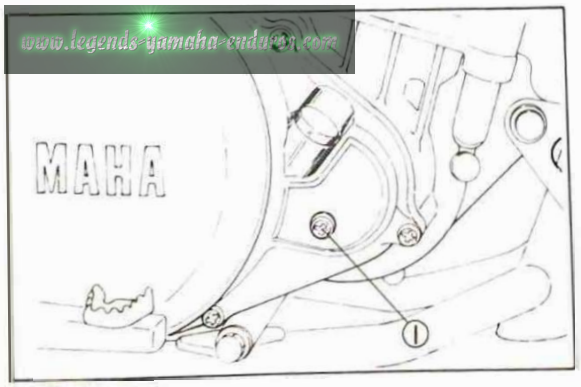


1. Checking bolt

Transmission oil replacement

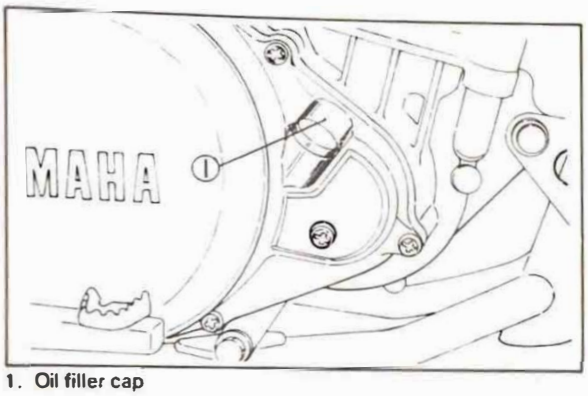
[T.R-A]

1. Place the machine on a level place. Warm up the engine for several minutes.

NOTE:

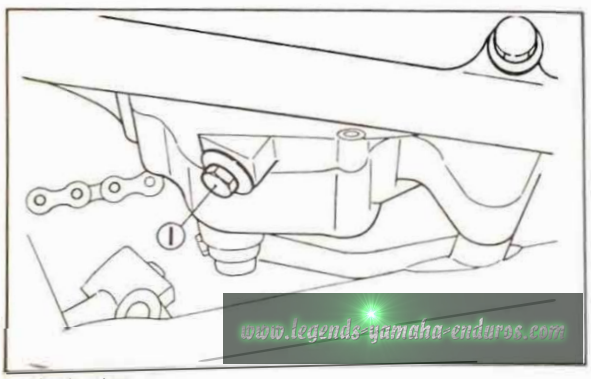
Be sure the machine is positioned straight up when checking the oil level.

2. Place an oil pan under the engine, and remove the oil filler cap.



1. Oil filler cap

3. Remove the drain plug, and drain the oil.



1. Drain plug

4. Reinstall the drain plug (make sure it is tight).

Drain plug torque:
See Supplementary assembly manual

5. Add oil through the oil filler hole.

CAUTION:

Do not add any chemical additives to the oil. The transmission oil also lubricates the clutch, and additives could cause the clutch to slip.

Periodic oil change:
See Supplementary assembly manual

6. Reinstall the oil filler cap securely.

Drive chain tension check

NOTE:

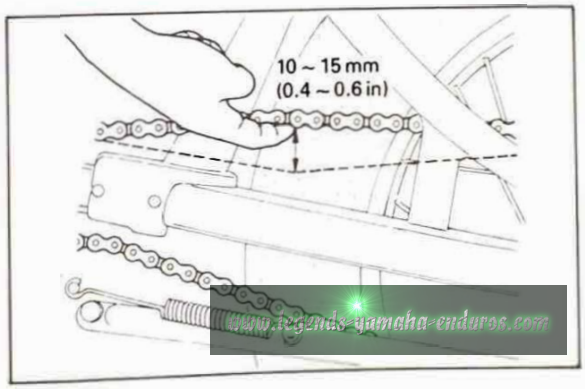
Before chain tension checking, find out the tightest point of the chain by rotating the rear wheel any number of revolutions. Check the chain tension with the rear wheel in this "tight chain" position.

1. Place the machine on a level place.

NOTE:

Be sure the machine is positioned straight up with both wheels on the ground and without an operator on it.

2. Check the tension at the position shown in the illustration. The normal vertical deflection is approximately 10 ~ 15 mm (0.4 ~ 0.6 in).
   If the chain deflection is not as specified, adjust the chain tension.



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Drive chain tension check

NOTE:

Before chain tension checking, find out the tightest point of the chain by rotating the rear wheel any number of revolutions. Check the chain tension with the rear wheel in this "tight chain" position.

1. Place the machine on a level place.

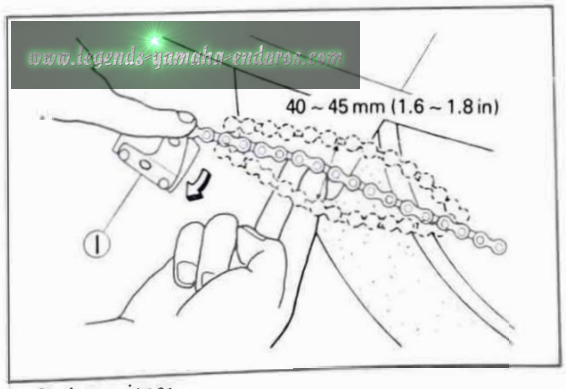
NOTE:

Be sure the machine is positioned straight up with both wheels on the ground and without an operator on it.

2. Check the tension at the position shown in the illustration. The normal vertical deflection is approximately 40 ~ 45 mm (1.6 ~ 1.8 in).
   If the chain deflection is not as specified, adjust the chain tension.

NOTE:

The chain tension check should be made with the chain tensioner not touching the chain.



1. Chain tensioner

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FUEL AND OIL

Fuel

Use premium gasoline with an octance rating of 90 + .

Mix the gasoline and oil at specified gas/oil ratio.

NOTE:

Always mix a fresh batch of fuel the morning of the race and do not retain a mixed batch overnight.

Fuel tank capacity:
See Owner's manual
Mixing ratio:
See Owner's manual

Engine oil

We recommend that your first choice be Yamalube Racing 2-cycle oil.

If for any reason you should use another oil, select from the following list.

NOTE:

FOR DETAILS, REFER TO THE OWNER'S MANUAL FOR THIS MODEL.

- Shell Super M
- Castrol R30
- 2-cycle engine oil labelled "BIA certified for service TC-W"

CAUTION:

Always use the same type of engine oil; mixing oils may result in a harmful chemical reaction and lead to poor performance.

Transmission oil

We recommend that your choice be followings.

Transmission oil capacity:
See Owner's manual
Recommended oil:
Yamalube 4-cycle oil or SAE 10W 30 type "SE" motor oil

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CABLE ROUTING

Be sure to check the cables and leads for correct routing in the predelivery service. Correct any kinks, knots, pinches, hitches, rests, etc. Also, on unpacking, remember to check the original cables and leads.

CAUTION:

Proper cable and lead routing is essential to insure safe vehicle operation. Refer to "CABLE ROUTING" of the Supplementary assembly manual.

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TIRES AND TIRE PRESSURE

The U.S. Distributor, Yamaha Motor Corporation, U.S.A. has published a manual outlining the procedure to follow when complying with the above Federal Law. This manual, "Tire Registration Procedure for Motorcycle Dealers", should be throughly studied.

Tires

United States Federal Law requires that accurate records be kept on all tire sales within the U.S.

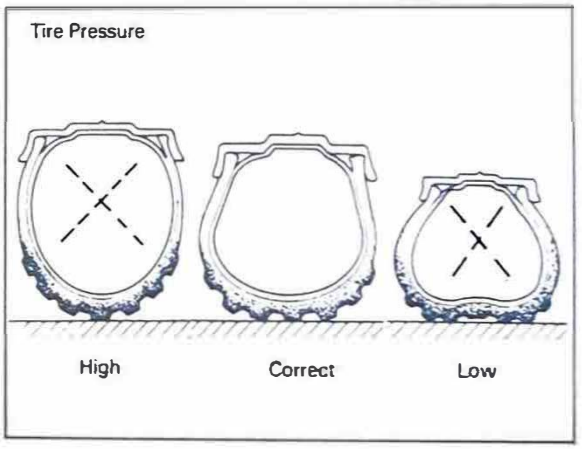
The U.S. Distributor, Yamaha International Corporation, has published a manual outlining the procedure to follow when complying with the above Federal Law. This manual, "Tire Registration Procedure for Motorcycle Dealers," should be thoroughly studied.

The Dealer's primary concern during new machine assembly is to make sure that any wheel assembly that comes unattached is assembled on the correct machine; and that his records (which must be sent to the U.S. Distributor) are completely accurate.

Tire pressure

All tires currently used on Yamaha motorcycles are low-pressure pneumatic types. This affords additional damping action (apart from the normal suspension) by making full use of the elasticity of the tire material and air cushion within. Tire pressure is regulated so that the side walls and tread assume approximately the shape shown in the schematic (right-center)

Tire pressure recommendations must be considered as a guide only. Local conditions, weather, the owner's riding habits, terrain, and the load on the machine (e.g., passenger or accessories) must all be taken into account. Your personal experience, coupled with the information below, is your best guide.



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