

YAMAHA

PW50B PW80B

ASSEMBLY MANUAL

PW50B



PW80B



FOREWORD

This Assembly Manual contains the information required for the correct reassembly of this Yamaha machine prior to delivery to the customer. Since some external parts of the machine have been removed at the Yamaha factory for the convenience of packing, assembly by the Yamaha dealer is required. It should be noted that the reassembled machine should be thoroughly cleaned, inspected, and adjusted prior to delivery to the customer.

NOTICE

This service specifications given in this assembly manual are based on the model as manufactured. Modifications and significant changes in specifications and/or procedures will be forwarded to Authorized Yamaha Dealers. The procedures below are described in the order that the procedures are carried out correctly and completely. Failure to do so can result in poor performance and possible harm to the machine and/or rider.

CONCERNING CRATE DAMAGE:

Follow the instructions in the Dealer warranty handbook, Procedure section.

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



The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

WARNING

Failure to follow **WARNING** instructions could result in severe injury or death to the machine operator, a bystander, or a person inspecting or repairing the machine.

CAUTION:

A CAUTION indicates special precautions that must be taken to avoid damage to the machine.

NOTE:

A NOTE provides key information to make procedures easier or clearer.

TECHNICAL PUBLICATIONS
SERVICE DIVISION
MOTORCYCLE GROUP
YAMAHA MOTOR CO., LTD.

SYMBOLS USED IN ASSEMBLY MANUAL

In order to simplify descriptions in assembly manuals, the following symbols are used:



: Coat with lithium soap base grease.



: Tighten to 10 Nm.
(10 Nm = 1.0 m•kg = 7.2 ft•lb)



: Front ward of the machine



: Provide a clearance.



: Install so that the arrow mark faces upward.



: Apply a motor oil.



: Made of rubber or plastics.



A: Ref No. (indicating the order or operations.)

B: Part name

C: Quantity of parts per machine.

D: Place where parts are held.

V: Stored in vinyl bag.

C: Stored in carton box.

S: Fixed inside the crate and/or contained in the styrofoam tray (upper or lower.)

*: Temporarily installed or secured.

E: Size or material of parts.

d/D: Diameter of part.

ℓ: Length of part.



ex, 5 (0.2) = 5 mm (0.2 in)

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ASSEMBLY MANUAL

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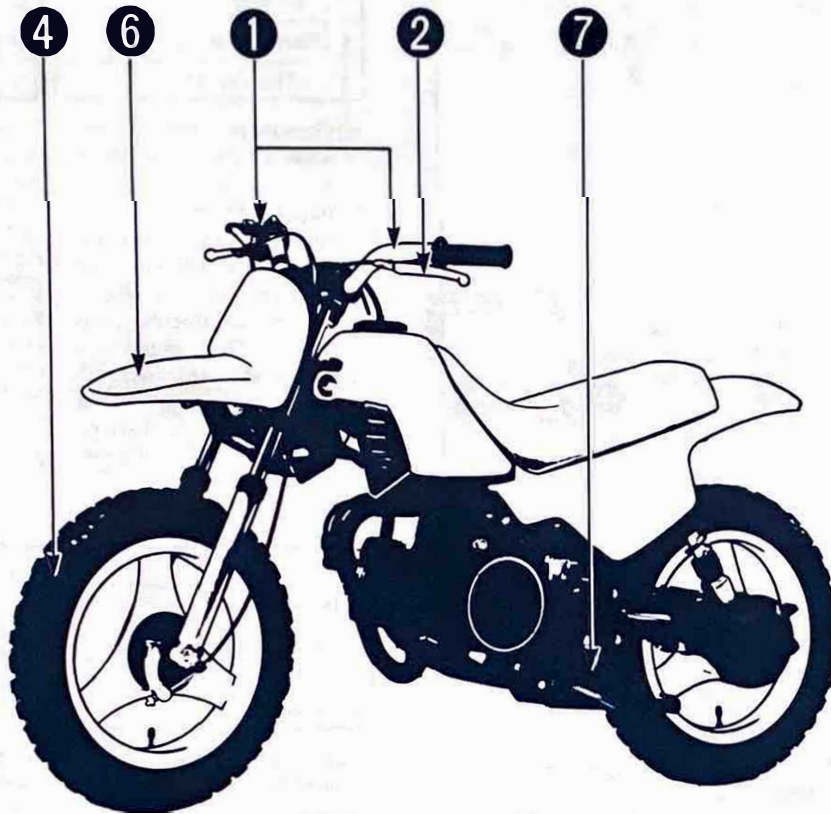
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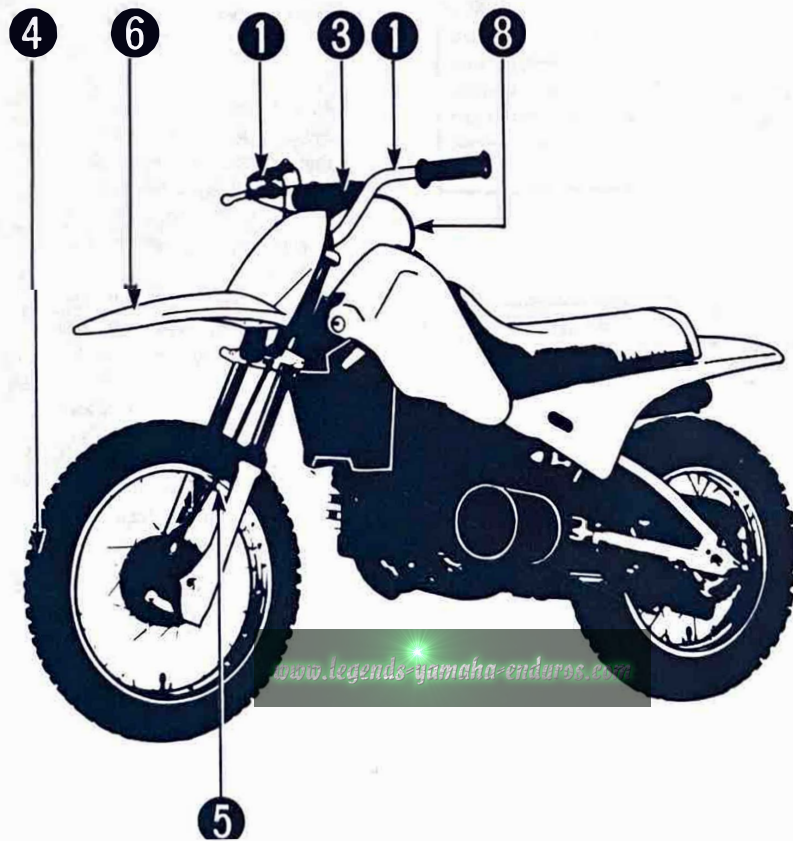
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SETUP PROCEDURES

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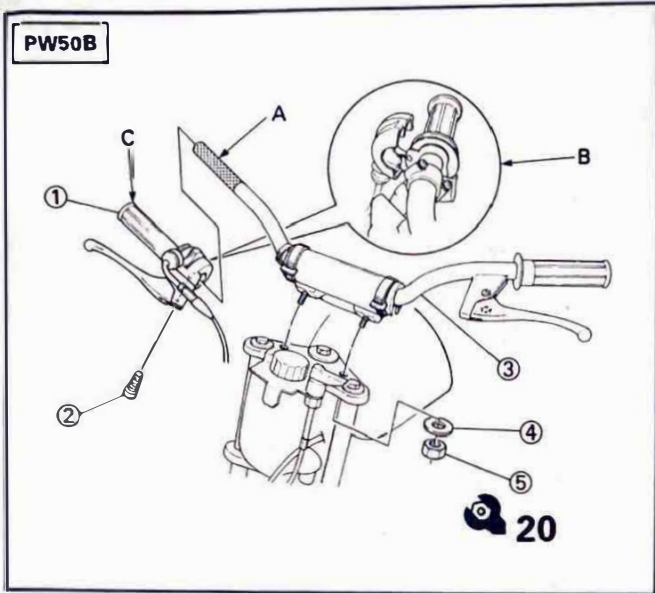


PW80B



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1. Handlebar



1	Handlebar grip	1	*	
2	Panhead screw	2	*	d=5 (0.2), l=25 (0.98)
3	Handlebar	1	S	
4	Plain washer	2	V	d=8.5 (0.33)
5	Self locking nut	2	V	d=8 (0.31)

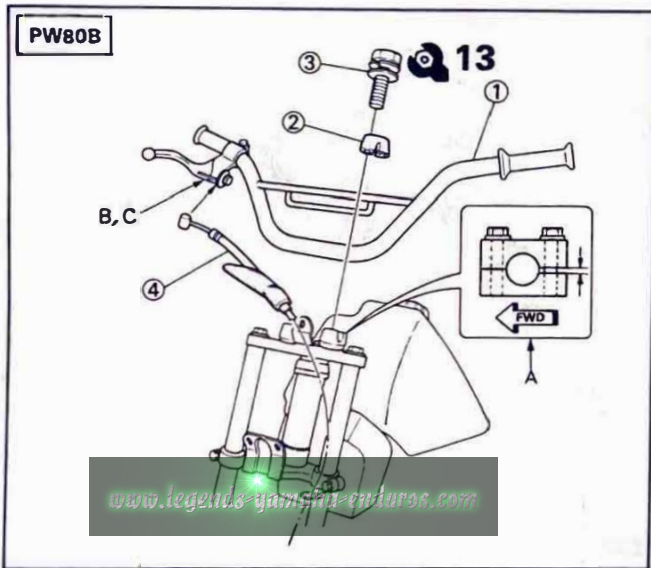
A: Clean the right handlebar end. Apply a light coat of lithium soap base grease.

B: Thread the throttle cable through the hole in upper handlebar switch (R). Hook the throttle cable end onto its seat in the throttle guide housing. Then, grease the throttle cable and housing.

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

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

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



1	Handlebar	1	S	
2	Handlebar upper holder	2	V	
3	Hexagon bolt with spring washer and plain washer	4	V	d=6 (0.24), l=35 (1.4)
4	Brake cable	1	*	

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.

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

a. Fully loosen the locknut on the cable holder, and screw in the adjuster on the cable holder until tight. Next, align the slit in the adjuster and locknut with the slit in the lever holder.

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

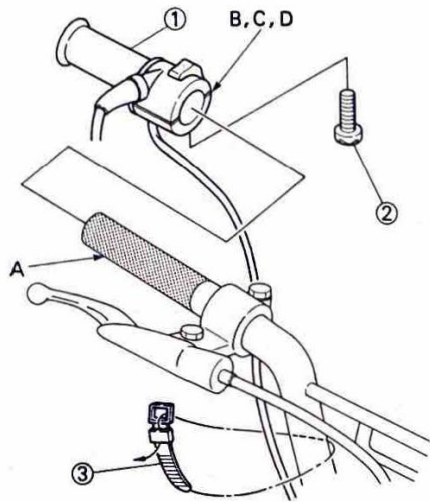
NOTE: Check the brake lever for smooth action. REFER TO "ADJUSTMENTS AND PREDELIVERY SERVICE."

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

C: Lubricate the pivoting parts of the brake lever.

Recommended lubricants:
SAE 10W30 motor oil

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1	Throttle grip	1	*	
2	Panhead screw	2	*	d=5 (0,2), l=20 (0,79)
3	Band	1	V	Plastic

- A: Clean the right handlebar end. Apply a light coat of lithium soap base grease.
- B: Slip the throttle grip over the right handlebar to the limit and slide it back about 2 mm (0.08 in).

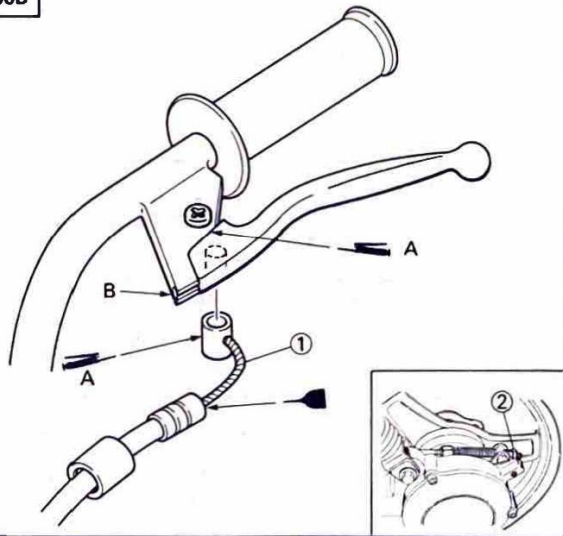
- C: Hook the throttle cable end onto its seat in the throttle guide housing. Then, grease the throttle cable and housing.
- D: Put together the upper and lower handlebar switch halves with screws.

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

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

2. Rear brake cable

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1	Brake cable	1	*	
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- A: Lubricate the pivoting part of rear brake lever.

Recommended lubricants:
 Yamaha Cable Lube or motor oil

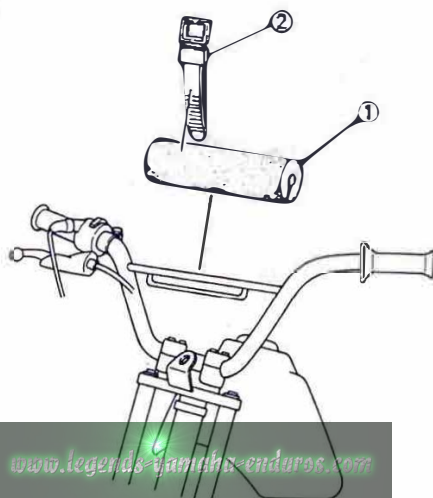
NOTE:
 Check the rear brake lever for smooth action. REFER TO "ADJUSTMENT AND PREDELIVERY SERVICE."

- B: To install the rear brake cable, be sure to proceed as follows:
 a. Fully loosen the adjuster ②.
 b. Insert the cable end into the lever hole. Next, while pulling the outer cable in the direction opposite of the lever guide the brake cable into the slot of the holder and seat the cable into the holder end.

⚠ WARNING
 Proper cable routing is essential to assure safe machine operation. REFER TO "CABLE ROUTING."

3. Handlebar protector

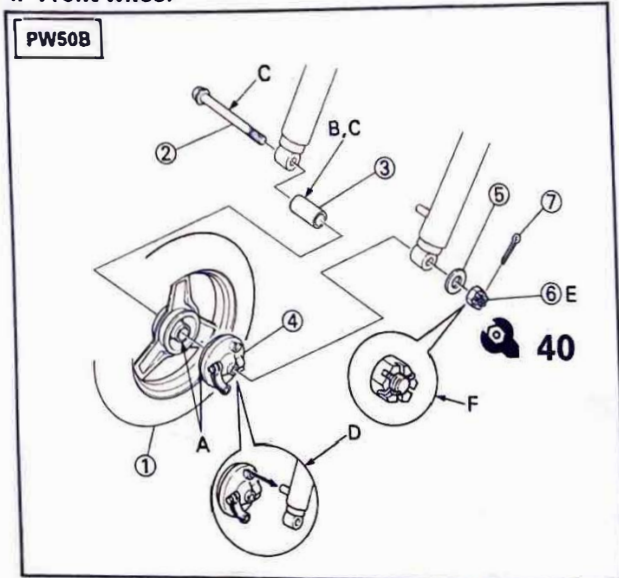
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1	Handlebar protector	1	S	Rubber
2	Band	2	V	Plastic

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4. Front wheel



1	Front wheel	1	S	
2	Front wheel axle	1	*	d=10 (0.39), ℓ=166 (6.54)
3	Collar	1	V	d=10 (0.39)
4	Brake shoe plate assembly	1	S	
5	Plain washer	1	*	d=10 (0.39)
6	Axle nut	1	*	d=10 (0.39)
7	Cotter pin	1	V	d=2 (0.08), ℓ=20 (0.79)

- A: Clean the brake shoe linings and inner surface of the front wheel hub with a clean cloth.
 B: If the collar is dirty, clean with a rag.
 C: Apply a light coat of lithium soap base grease.

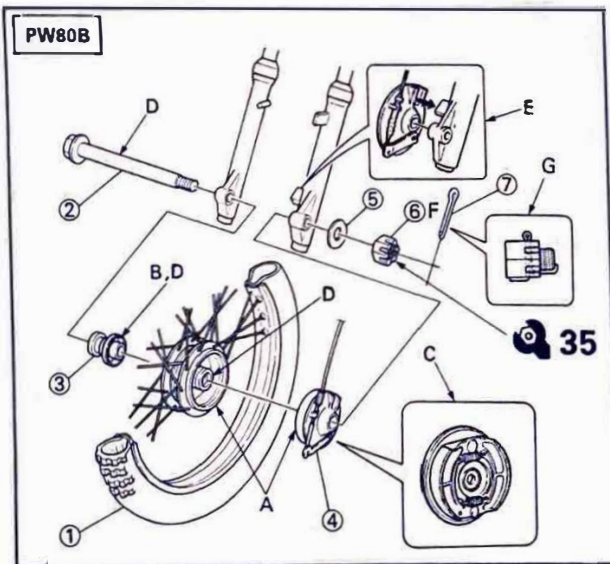
- D: Insert the front wheel between the front fork legs so that the torque stopper (projecting portion) on the front fork correctly engages the slot in the brake shoe plate.
 E: Tighten the axle nut to specified torque.

⚠ 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.

Tightening torque:
 40 Nm (4.0 m·kg, 29 ft·lb)

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



1	Front wheel	1	S	
2	Front wheel axle	1	*	d=10 (0.39), ℓ=185 (7.22)
3	Collar	1	V	
4	Brake shoe plate assembly	1	S	
5	Plain washer	1	*	d=12 (0.47), d=22 (0.86)
6	Axle nut	1	*	d=10 (0.39)
7	Cotter pin	1	V	

- A: Clean the brake shoe linings and the inner surface of the wheel hub with a clean cloth.
 B: If the collar is dirty, clean with a rag.
 C: Make sure the brake shoes and springs are correctly installed in the shoe plate assembly. If any one of them is out of place, correct it according to the figure.
 D: Apply a light coat of lithium soap base grease.

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

Tightening torque:
 35 Nm (3.5 m·kg, 25 ft·lb)

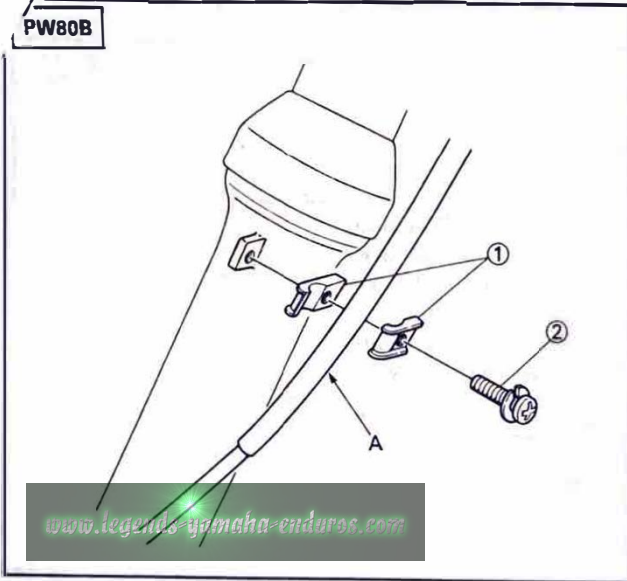
- G: Insert the cotter pin into the axle nut and bend the end of the cotter pin.

⚠ 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.

Cable holder

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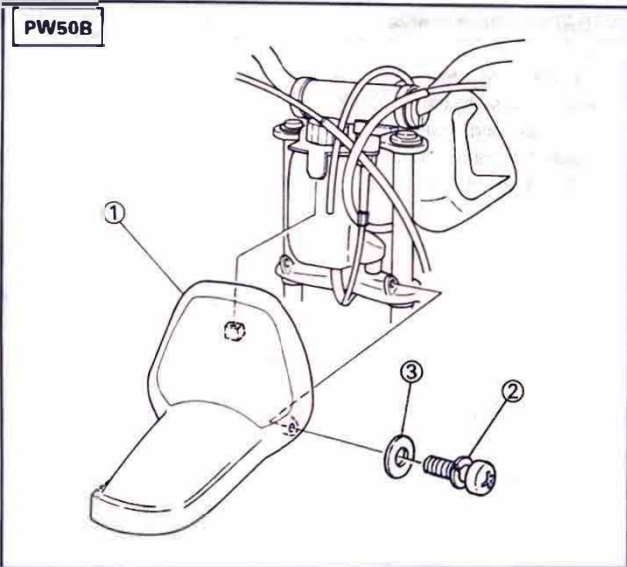


1	Cable holder	2	*	
2	Panhead screw with spring washer	1	*	d=6 (0.24), ℓ=12 (0.47)

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

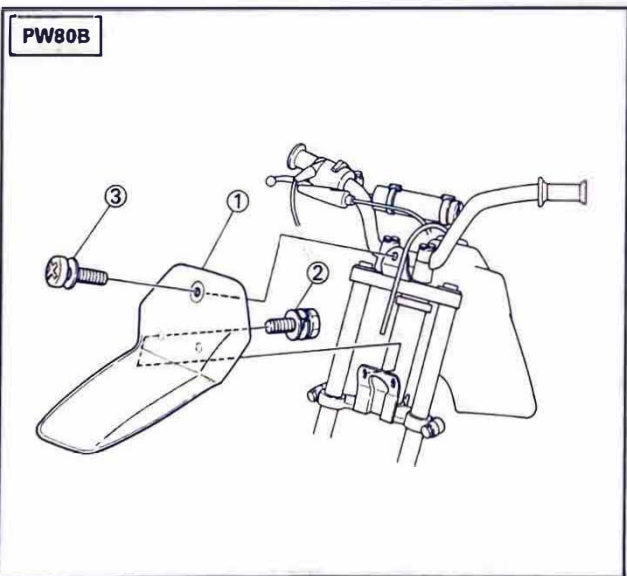
6. Front fender

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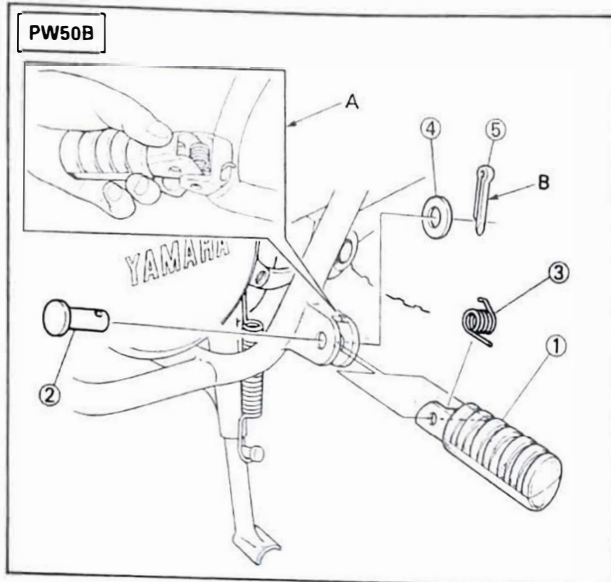
1	Front fender	1	S	
2	Panhead screw with spring washer	2	V	d=6 (0.24), ℓ=12 (0.47)
3	Plain washer	2	V	d=6 (0.24)

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1	Front fender	1	S	
2	Hexagon bolt with spring washer and plain washer	2	V	d=6 (0.24), ℓ=16 (0.64)
3	Panhead screw with plain washer	1	V	d=6 (0.24), ℓ=16 (0.64)

7. Footrest



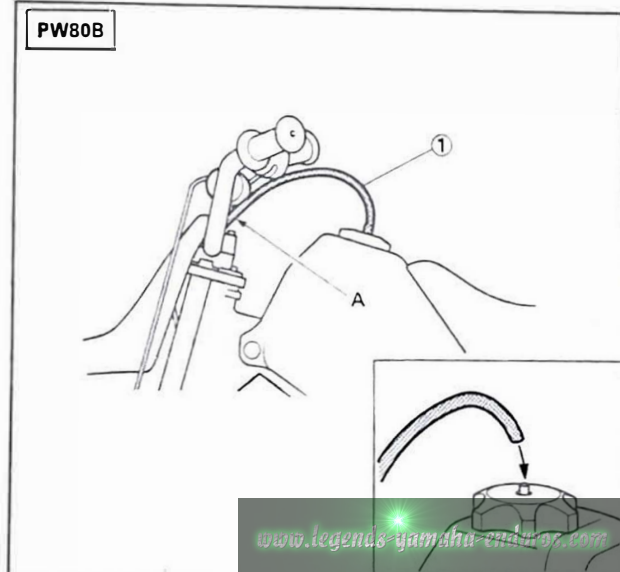
1	Footrest	2	S	
2	Clevis pin	2	V	d=8 (0.31), ℓ=38 (1.5)
3	Torsion spring	2	V	
4	Plain washer	2	V	d=8 (0.31)
5	Cotter pin	2	V	d=2 (0.08), ℓ=12 (0.47)

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

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

NOTE: _____
After installing the footrest, check that it moves smoothly.

8. Fuel tank breather hose



1	Fuel tank breather hose	1	S	Rubber
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A: Connect one end of the breather hose to the fuel tank filler cap, and insert it between the frame head pipe and the front fender.

CABLE ROUTING

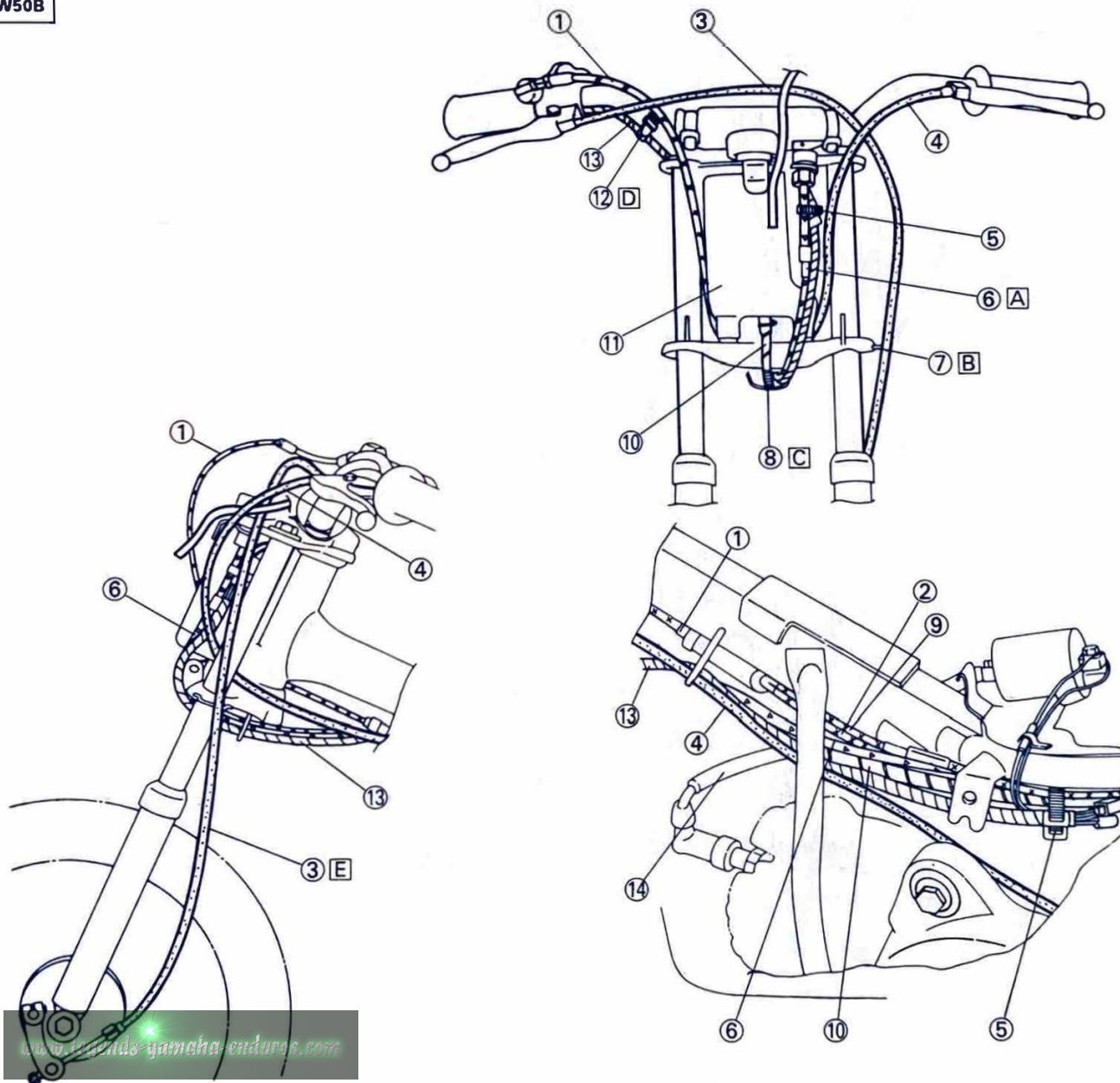
⚠ WARNING

Proper cable and lead routing is essential to insure safe machine operation.

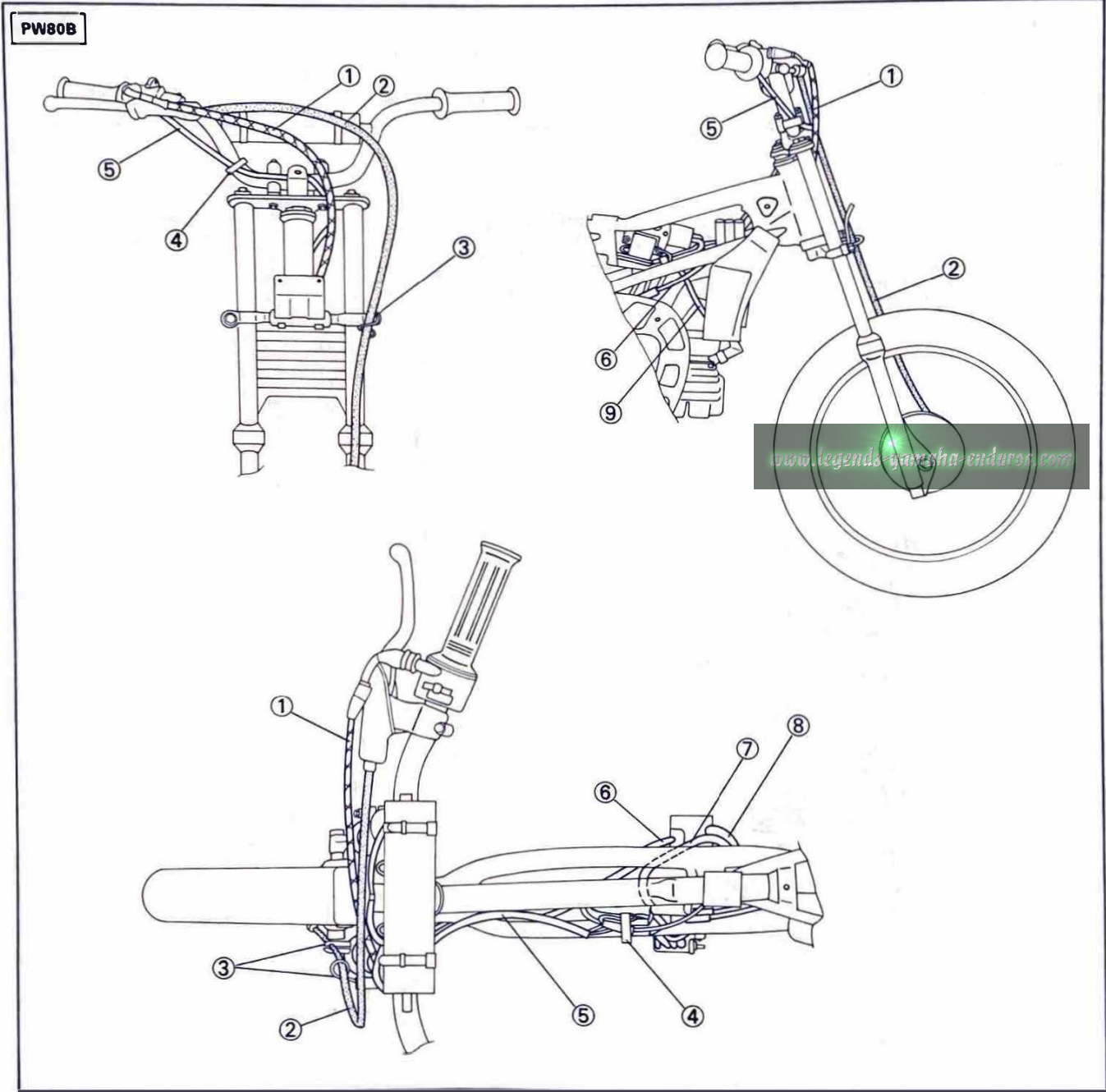
- | | |
|---|---------------------|
| ① Throttle cable 1 | ⑨ Oil pump cable |
| ② Throttle cable 2 | ⑩ Oil pipe |
| ③ Front brake cable | ⑪ Oil tank |
| ④ Rear brake cable | ⑫ Switch cord band |
| ⑤ Switch cord band | ⑬ Wire harness |
| ⑥ Starter cable | ⑭ High tension wire |
| ⑦ Guide 2 (front brake cable) | |
| ⑧ Guide 1 (Wire harness, oil pipe, starter cable) | |

- A** Clamp the wire harness coupler and starter cable.
- B** Pass the front brake cable.
- C** Pass the wire harness, oil pipe and starter cable.
- D** Clamp the wire harness to the handlebar.
- E** Do not twist the front brake cable.

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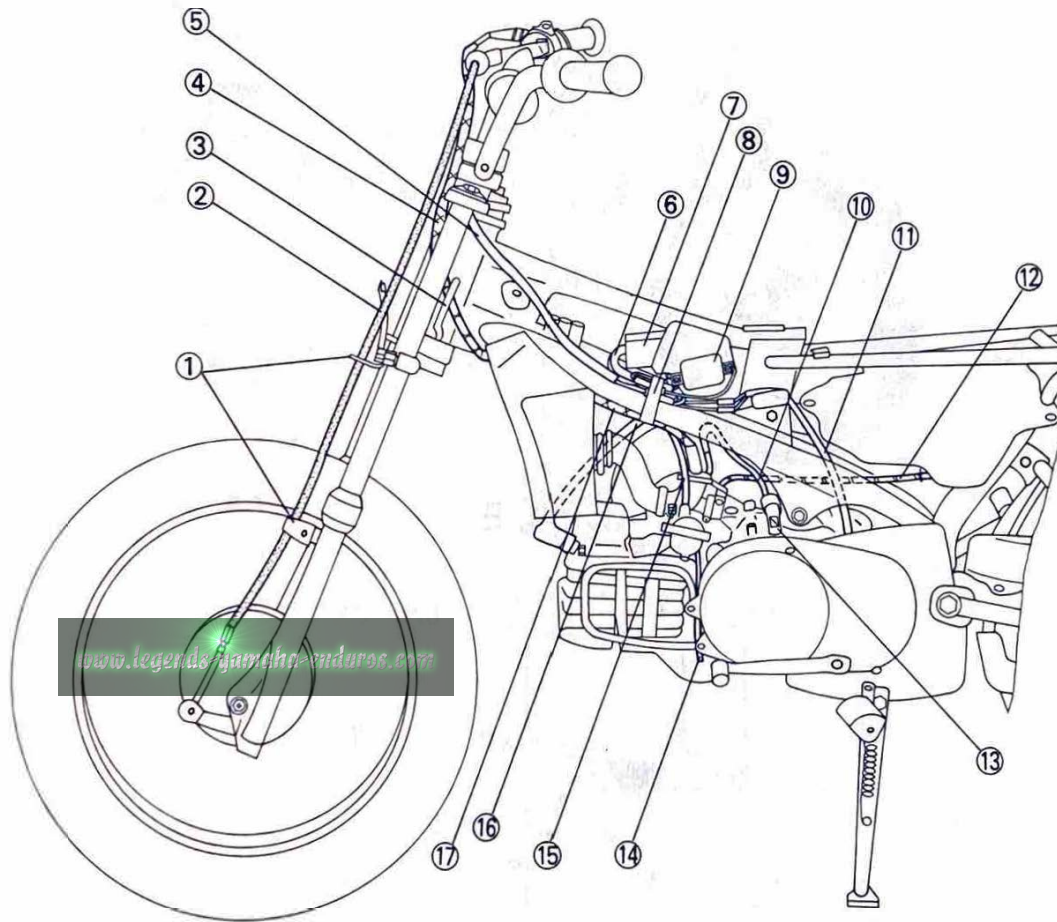


- ① Throttle cable 1
- ② Front brake cable
- ③ Clamp
- ④ Band
- ⑤ "ENGINE STOP" switch lead
- ⑥ Oil pump cable
- ⑦ Starter cable
- ⑧ Oil pipe
- ⑨ High tension cord

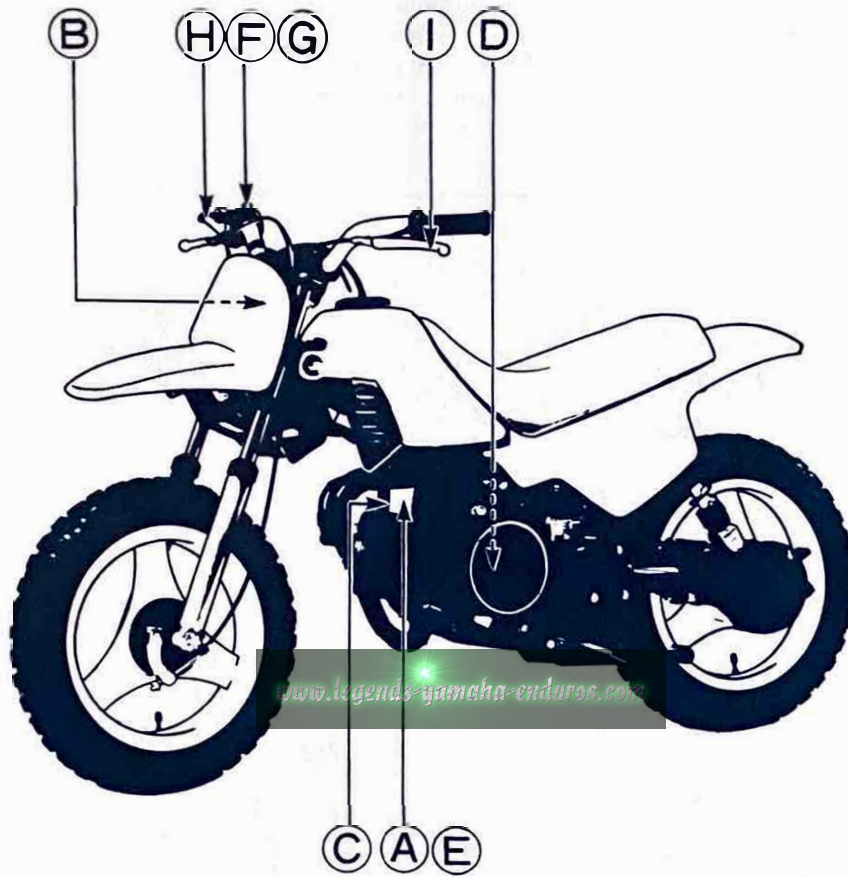


- | | |
|-----------------------------|-----------------------|
| ① Clamp | ⑩ Starter cable |
| ② Front brake cable | ⑪ C.D.I. magneto lead |
| ③ Cable guide | ⑫ Oil pipe |
| ④ Throttle cable 1 | ⑬ Starter lever |
| ⑤ "ENGINE STOP" switch lead | ⑭ Breather pipe |
| ⑥ C.D.I. unit lead | ⑮ Air vent pipe |
| ⑦ C.D.I. unit | ⑯ High tension cord |
| ⑧ Band | ⑰ Throttle cable 2 |
| ⑨ Ignition coil | |

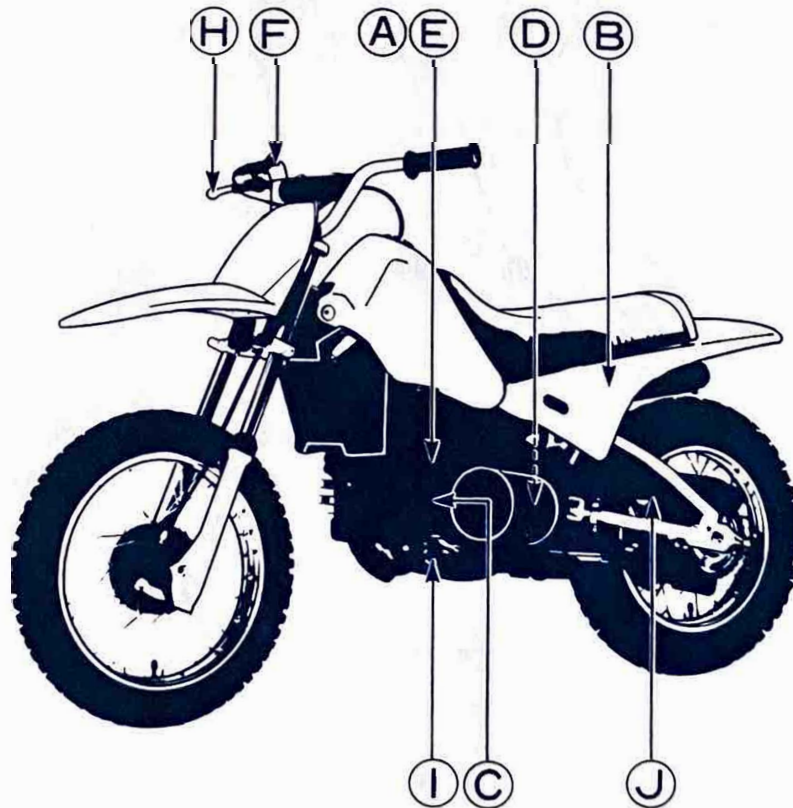
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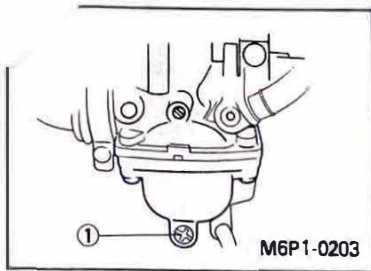


ADJUSTMENTS AND PREDELIVERY SERVICE



PW80B





1. Drain screw

A. Fuel draining

1. Turn the fuel cock to "OFF".
2. Put a rag under the carburetor so fuel does not contact the crankcase.
3. Loosen the drain plug and drain the standing fuel.
4. Retighten the drain plug securely.

⚠ WARNING

FUEL IS HIGHLY FLAMMABLE:

- Always turn off the engine when draining.
- Take care not to spill any fuel on the engine or exhaust pipe(s)/muffler(s) when draining.
- Never drain fuel while smoking or in the vicinity of an open flame.



PW50B

B. Engine oil level

1. Check
 - a. Place the machine on a level place.

NOTE:

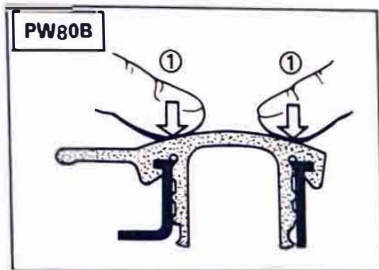
Be sure the machine is positioned straight up and on both wheels when checking the oil level, a slight tilt toward the side can produce false readings.

NOTE:

Install the oil tank filler cap and push it fully into the filler. (PW80B only)

CAUTION:

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



PW80B

1. Push

- b. The oil level is up to the bottom of the filler neck. If it is not to this level, add sufficient oil to raise it to this level.

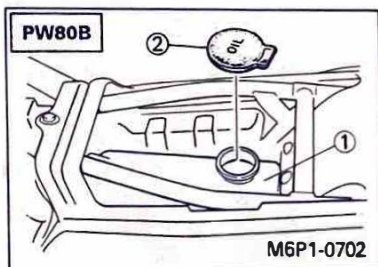
Recommended oil:

Yamalube 2-cycle oil or air-cooled 2-stroke engine oil

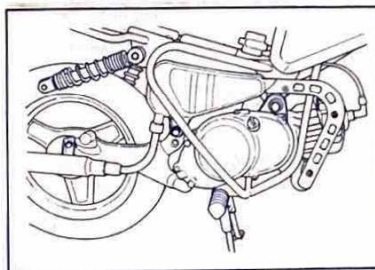
Oil tank capacity:

PW50B: 0.3 L (0.26 Imp qt, 0.32 US qt)

PW80B: 0.95 L (0.84 Imp qt, 1.0 US qt)



1. Oil tank 2. Oil cap



C. Bleeding the Autolube pump

<PW50B>

Prior to servicing the Autolube pump, remove the muffler.

1. Bleeding the pump case and/or oil pipe
 - a. Remove the bleed screw ①.
 - b. Keep the oil running out until air bubbles disappear.

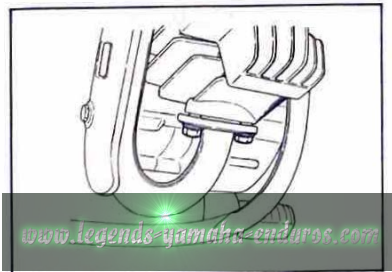
NOTE:

Check the bleed screw gasket, and if damaged, replace with a new one.

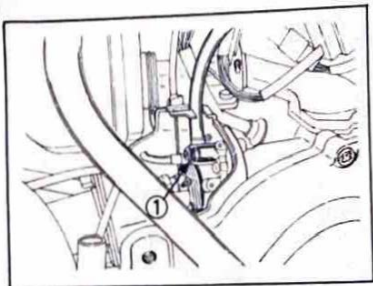
- c. When air bubbles are expelled completely, tighten the bleed screw.

2. Bleeding the pump distributor and/or delivery pipe

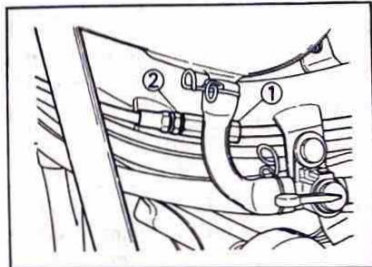
- a. Start the engine.
- b. Pull the pump cable all the way out to set the pump stroke to a maximum.



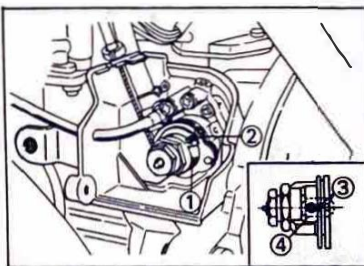
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1. Bleed screw



1. Adjuster
2. Locknut



1. Adjusting pulley 2. Phillips head screw
3. Mark 4. Set position

NOTE:

It is difficult to bleed the distributor completely with the pump stroke at a minimum, and therefore the pump stroke should be set to a maximum.

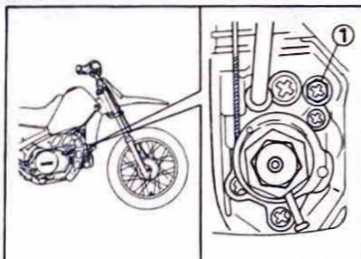
- c. Keep the engine running at about 2,000 r/min for two minutes or so, and both distributor and delivery pipe can be completely bled.

3. Oil pump cable adjustment

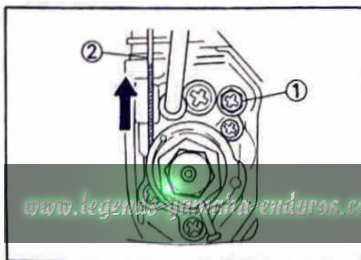
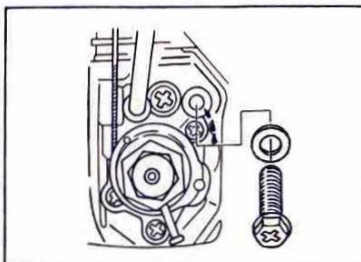
- a. Remove the slack in throttle cable 2 by turning the adjusting screw attached to the carburetor.
- b. Loosen the locknut.

- c. Turn the adjusting screw so that the mark on the adjusting pulley is aligned with the Phillips head screw attached to the adjusting plate.
- d. Screw in the locknut until tight.

4. Install the muffler.



1. Bleed screw



1. Bleed screw 2. Pump cable

<PW80B>

The Autolube pump and delivery lines must be bled on the following occasions:

- Setting up a new machine out of the crate.
- Whenever the Autolube tank has run dry.
- Whenever any portion of the Autolube system is disconnected.

1. Bleeding the pump case and/or oil pipe

- a. Remove the pump cover and remove the bleed screw ①.
- b. Keep the oil running out until air bubbles disappear.

NOTE:

Check the bleed screw gasket, and if damaged, replace with a new one.

- c. When air bubbles are expelled completely, tighten the bleed screw and install the pump cover.

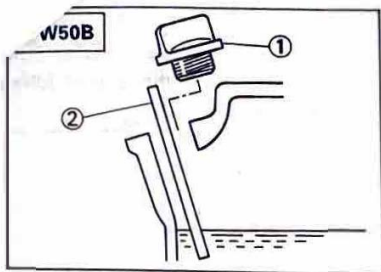
2. Bleeding the pump distributor and/or delivery pipe

- a. Start the engine.
- b. Pull the pump cable ② all the way out to set the pump stroke to a maximum.

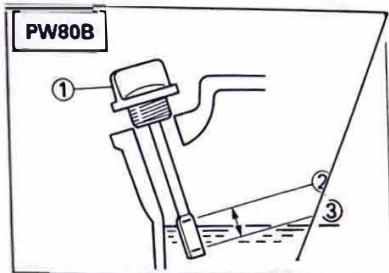
NOTE:

It is difficult to bleed the distributor completely with the pump stroke at a minimum, and therefore the pump stroke should be set to a maximum.

- c. Keep the engine running at about 2,000 r/min for two minutes or so, and both distributor and delivery pipe can be completely bled.



1. Oil plug
2. Appropriate rod



1. Dipstick
2. Maximum mark
3. Minimum mark

D. Transmission oil level

1. Check
 - a. Place the machine on a level place.

NOTE: _____
Be sure the machine is positioned straight up.

- b. Warm up the engine for a few minutes.
- c. Stop the engine.
- d. <PW50B>
 - Remove the oil plug ① and then just put an appropriate rod ② in the hole.
 - Check the oil in the crankcase. (If yes, ...OK)
- <PW80B>
 - Remove the dipstick and then just rest the dipstick in the hole.

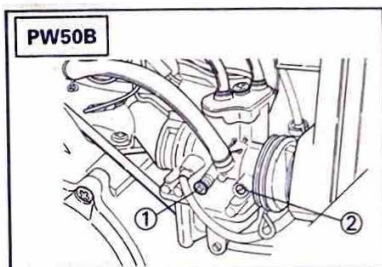
NOTE: _____
When checking the transmission oil level with the dipstick, let the unscrewed dipstick just rest on the case threads.

- e. The oil level is satisfactory, if it is between the maximum mark and minimum mark on the dipstick.

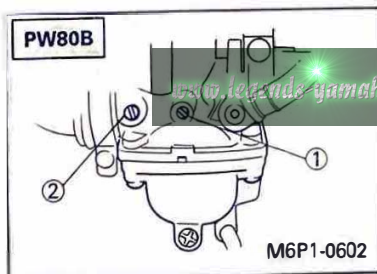
2. Adjust
To increase oil level, add the oil to proper level.

Recommended oil:
Yamalube 4 (10W-30) or SAE 10W30 type SE motor oil
Oil capacity (Periodic change):
PW50B: 0.3 L (0.26 Imp qt, 0.32 US qt)
PW80B: 0.70 L (0.62 Imp qt, 0.74 US qt)

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.



1. Throttle stop screw
2. Pilot air screw



1. Throttle stop screw
2. Pilot air screw

E. Idle speed

1. Check
 - a. Start the engine and warm it up for a few minutes.
 - b. Check the engine idle speed.

Engine idle speed:
PW50B/PW80B: 1,700 r/min

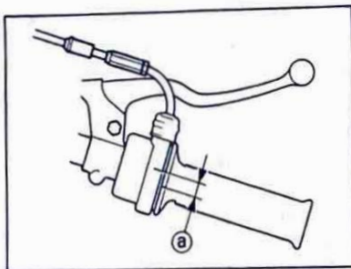
2. Adjust
 - a. Screw in the pilot air screw ② until it is lightly seated.
 - b. Back out by specified number of turns.

Pilot air screw:
PW50B: 1-3/8 turns out
PW80B: 1-1/2 turns out

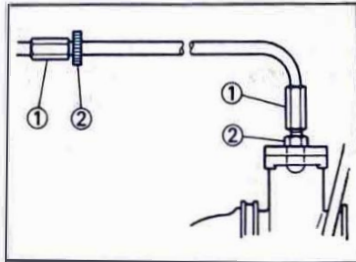
- c. Turn the throttle stop screw until the idle is at the specified r/min.
- d. Turn the pilot air screw ② in or out until the idle speed is at the highest rpm. Turn the throttle stop screw ① in or out until the idle speed is at the specified rpm.

If the engine, when warm, hesitates after adjusting as described, turn the pilot air screw in or out in 1/4 turn increments until the problem is eliminated.

NOTE: _____
The pilot air and throttle stop screws should be adjusted so that the engine response from the idle position is rapid and without hesitation.



a. Free play



1. Adjuster
2. Locknut

F. Throttle grip free play

1. Check:

Free play:
PW50B: 2-3 mm (0.08-0.12 in)
PW80B: 3-5 mm (0.12-0.20 in)

2. Adjust

- a. Loosen the locknut.
- b. Turn the adjuster in or out until the adjustment is suitable.
- c. Tighten the locknut.

NOTE:

- Before adjusting the throttle cable free play, the engine idling speed should be adjusted.
- After adjustment, start the engine and check throttle operation. Turn the handlebars from lock to lock and note if the engine speeds up; if it does, the cable adjustment is too tight and must be readjusted.

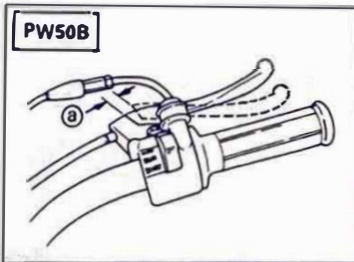
CAUTION:

After adjusting, turn the handlebars to the right and left and make sure the engine does not run faster.

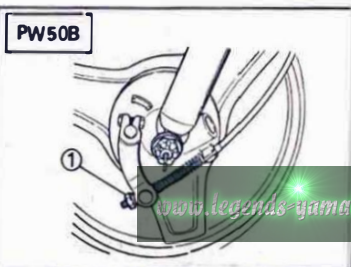


G. Speed limiter

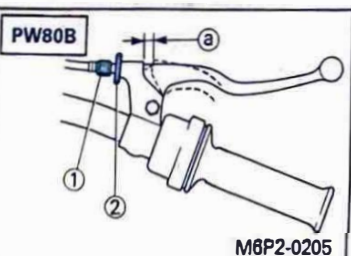
- A speed limiter is furnished on the bottom of the throttle grip. If this limiter is screwed in, it "limits" the degree of throttle opening; that is, controls the vehicle speed.
- After removing the adjuster, plug the adjuster hole with the plug (contained in the carton).



a. Free play



1. Adjuster



1. Adjuster 2. Locknut a. Free play

H. Brake lever free play (front)

<PW50B>

1. Check:

Free play: 5-8 mm (0.2-0.3 in)

2. Adjust

- a. Turn the adjuster in or out until the adjustment is suitable.

NOTE:

Make sure the brake is working properly.

<PW80B>

1. Check

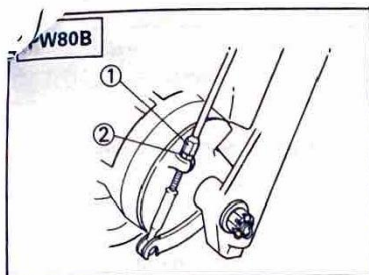
Free play: 5-8 mm (0.2-0.3 in)

2. Adjust

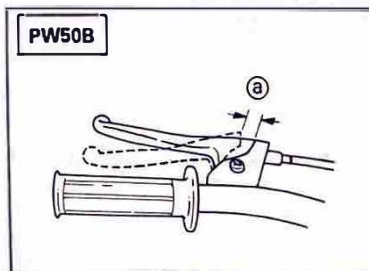
- a. Loosen the locknut ②.
- b. Turn the adjuster ① in or out until the adjustment is suitable.
- c. Tighten the locknut.

NOTE:

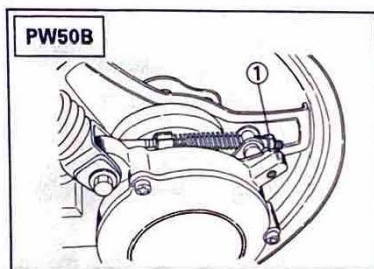
Make sure the brake is working properly.



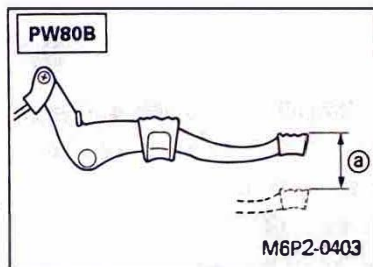
1. Adjuster 2. Locknut



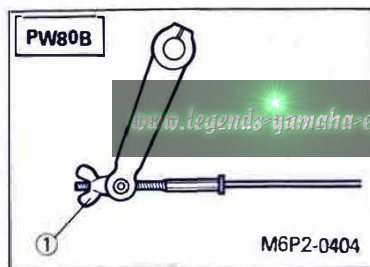
a. Free play



1. Adjuster



a. Free play



1. Adjuster

I. Rear brake free play (lever & pedal)

<PW50B>

1. Check:

Free play: 5~8 mm (0.2~0.3 in)

2. Adjust
 - a. Turn the adjuster ① in or out until the adjustment is suitable.

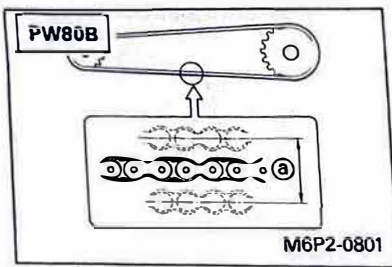
NOTE: _____
 Make sure the brake is working properly.

<PW80B>

1. Check

Free play: 20~30 mm (0.8~1.2 in)

2. Adjust
 - a. Turn the adjuster in or out until the adjustment is suitable.



a. Chain slack

J. Drive chain slack

1. Check

NOTE:

Before checking the drive chain slack, rotate the rear wheel several turns and check slack at several points to find the tightest point. Check the chain slack with the rear wheel in this "tightest" position.

- a. Place the machine on a level place and hold it in upright position.

Chain slack: 15~20 mm (0.6~0.8 in)

NOTE:

Be sure the machine is positioned straight up without an operator on it when checking the chain slack.

2. Adjust

- a. Loosen the rear brake adjuster.
- b. Remove the cotter pin and loosen the rear wheel axle nut.
- c. To loosen the chain, turn the adjuster counterclockwise and push the wheel forward.
- d. Adjust the chain slack by turning adjuster clockwise and counterclockwise.

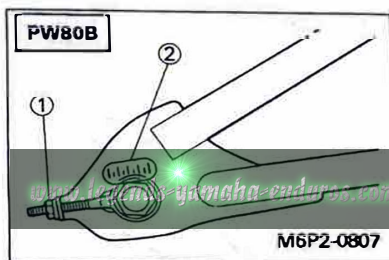
NOTE:

Turn each adjuster exactly the same amount to maintain correct axle alignment.

- e. After adjusting, be sure to tighten the rear wheel axle nut.

Tightening torque:
60 Nm (6.0 m·kg, 43 ft·lb)

- f. Insert the cotter pin into the axle nut and bend the end of cotter pin.



1. Adjuster
2. Mark for alignment

APPENDICES

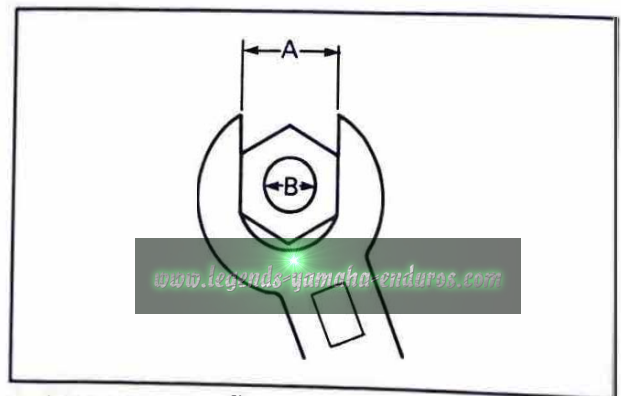
SERVICE DATA

	PW50B	PW80B	
Idling engine speed:	As desired (S.T.D. 1,700 r/min)	←	
Spark plug: Gap	BP4HS (NGK), W14FPL (ND) 0.6~0.7 mm (0.024~0.028 in)	BP6HS (NGK) ←	
Fuel: Recommended fuel Fuel tank capacity	Unleaded fuel 2.0 L (0.44 Imp gal, 0.53 US gal)	← 4.9 L (1.1 Imp gal, 1.3 US gal)	
Engine oil: Recommended oil Oil tank capacity	Yamalube 2-cycle oil or Air-cooled 2-stroke engine oil 0.3 L (0.26 Imp qt, 0.32 US qt)	← 0.95 L (0.84 Imp qt, 1.00 US qt)	
Transmission oil: Recommended oil Oil capacity Total amount Periodic oil change	Yamalube 4-cycle oil or SAE 10W30 type SE motor oil 0.35 L (0.31 Imp qt, 0.37 US qt) 0.3 L (0.26 Imp qt, 0.32 US qt)	← 0.75 L (0.66 Imp qt, 0.79 US qt) 0.7 L (0.62 Imp qt, 0.74 US qt)	
Tire pressure (Cold tire pressure):	Front	Rear	←
	100 kPa (1.0 kg/cm ² , 15 psi)	100 kPa (1.0 kg/cm ² , 15 psi)	

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 prior 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 an automobile wheel and will avoid warping the component.

A	B	General torque specifications		
		Nm	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

PW50B

TIGHTENING TORQUE

Parts to be tightened	Thread size	Tightening torque		
		Nm	m•kg	ft•lb
Engine:				
Spark plug	M14	20	2.0	14.0
Oil pump	M 5	4	0.4	2.9
Chassis:				
Front wheel axle	M10	40	4.0	29.0
Handle	M 8	20	2.0	14.0
Handle crown — Steering shaft	M10	35	3.5	25.0
— Handle holder	M 8	25	2.5	18.0
— Inner tube	M10	35	3.5	25.0
Steering shaft nut	—	30	3.0	22.0
Engine mounts	M10	48	4.8	35.0
Rear wheel axle	M12	60	6.0	43.0

STANDARD EQUIPMENT

No.	Part name	Q'ty
1	Owner's service manual	1
2	Owner's tool kit*	1

***OWNER'S TOOL KIT**

No.	Part name	Q'ty
1	Owner's tool bag	1
2	Box wrench (21)	1
3	Handlebar	1

TIGHTENING TORQUE

Parts to be tightened	Thread size	Tightening torque		
		Nm	m•kg	ft•lb
Engine:				
Spark plug	M14	25	2.5	18.0
Shift pedal	M 6 × 1.0	10	1.0	7.2
Chassis:				
Front wheel axle and nut	M10 × 1.25	35	3.5	25.0
Camshaft lever and camshaft	M 6 × 1.0	10	1.0	7.2
Handle crown and inner tube	M20 × 1.0	40	4.0	29.0
Handle crown and steering shaft	M10 × 1.25	40	4.0	29.0
Handle crown and handlebar under holder	M10 × 1.25	40	4.0	29.0
Handlebar upper holder and handlebar under holder	M 6 × 1.0	13	1.3	9.4
Engine mounting				
Upper	M8 × 1.25	23	2.3	17.0
Center	M8 × 1.25	23	2.3	17.0
Lower	M8 × 1.25	26	2.6	19.0
Fuel tank and frame	M 6 × 1.0	10	1.0	7.2
Rear arm and frame	M10 × 1.25	31	3.1	22.0
Footrest and frame				
Right	M 8 × 1.25	26	2.6	19.0
Left	M 8 × 1.25	26	2.6	19.0
Sidestand and frame	M 8 × 1.25	20	2.0	14.0
Sprocket wheel mounting bolt	M 8 × 1.25	26	2.6	19.0
Rear wheel axle and nut	M12 × 1.25	60	6.0	43.0

STANDARD EQUIPMENT

No.	Part name	Q'ty
1	Owner's service manual	1
2	Owner's tool kit*	1

*** OWNER'S TOOL KIT**

No.	Part name	Q'ty
1	Owner's tool bag	1
2	Spark plug wrench (19 — 21)	1
3	Handlebar	1



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