

# SET-UP MANUAL

## RM-Z450L5

### FOREWORD

This motorcycle has been designed and produced utilizing Suzuki's most modern technology. The finest product, however, cannot perform properly unless it is correctly assembled and serviced. This set-up manual has been produced to aid you in properly assembling and servicing this motorcycle.

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol ▲ and the words **WARNING**, **CAUTION**, **NOTICE** and **NOTE** have special meanings. Pay particular attention to messages highlighted by these signal words:

#### **▲ WARNING**

Indicates a potential hazard that could result in death or serious injury.

#### **▲ CAUTION**

Indicates a potential hazard that could result in minor or moderate injury.

#### **NOTICE**

Indicates a potential hazard that could result in motorcycle or equipment damage.

#### **NOTE:**

*Indicates special information to make maintenance easier or instructions clearer.*

This set-up manual is based on a motorcycle of standard specification. Some minor differences from this manual may be found in other specifications.

**SUZUKI MOTOR CORPORATION**

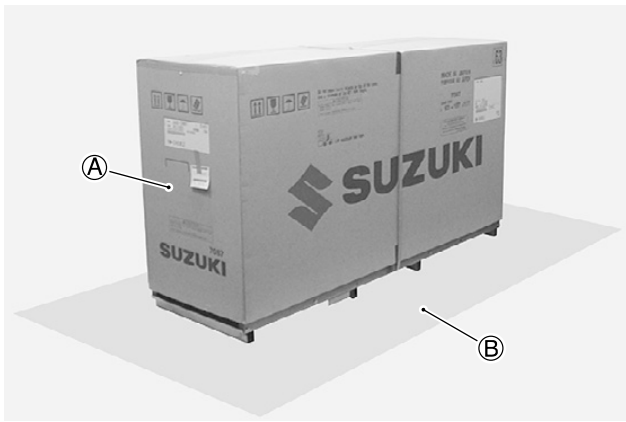
**L5**

**SUZUKI**

99505-01055-01E  
EN

# PREPARATION

## WORKSHOP

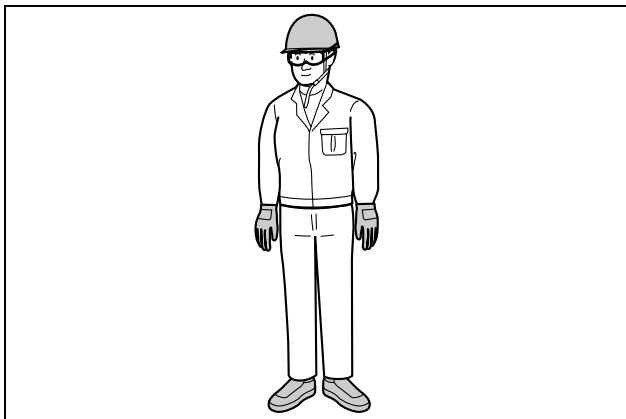


### ⚠ CAUTION

Assembling the vehicle in poor working condition can be hazardous.

Place the packed vehicle on a level floor where it is clean and spacious.

A: Packed vehicle  
B: Working space



## SELF PROTECTION

### ⚠ CAUTION

Assembling the vehicle without proper clothes and protective gear can be hazardous. You can be injured if you do not wear proper clothes and protective gear.

Be sure to wear proper clothes and shoes for assembling and wear protective glasses, mask or gloves as necessary.

# UNCRATING THE MOTORCYCLE

Cut the strap by using scissors.

A: Strap



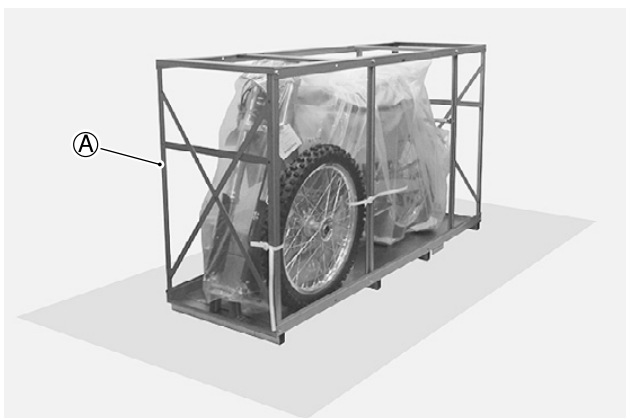
Remove the carton.

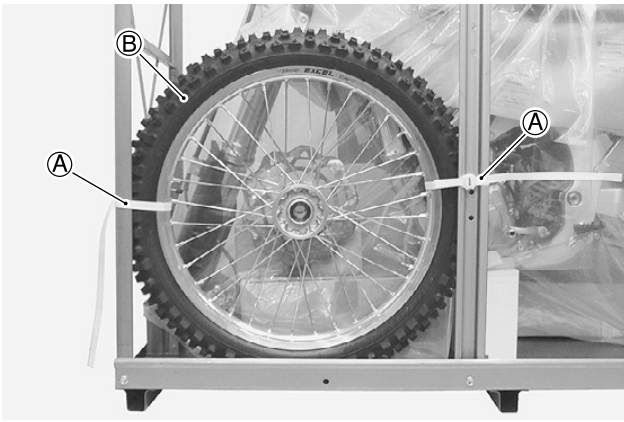
### ⚠ CAUTION

Metal crates may have sharp edges and may cause injury.

Wear proper protective clothes and gear.

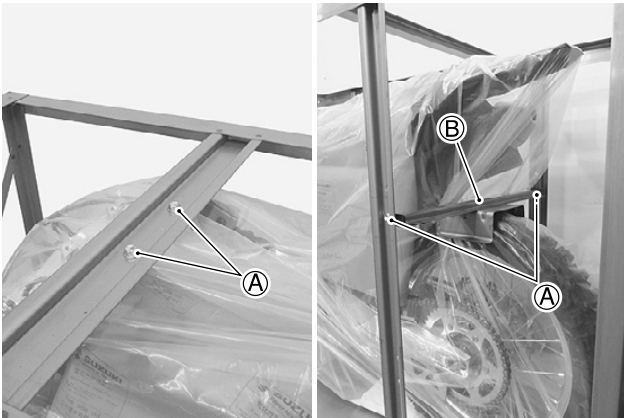
A: Crate





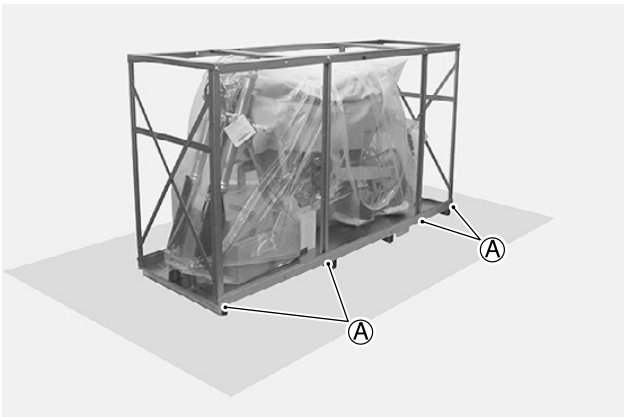
Remove the strap.  
Take out the front wheel assembly from the crate base.

A: Strap  
B: Front wheel assembly



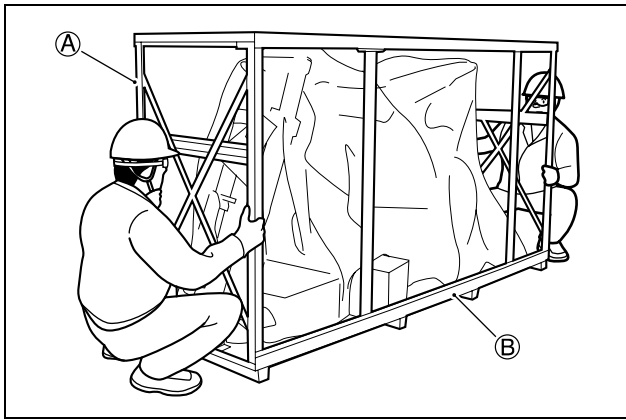
Remove the bolts of the bracket.  
Remove the bolts to take off the rear wheel holding bracket.

A: Bolt  
B: Rear wheel holding bracket



Remove the bolts from the crate.

A: Bolt



Lift the steel frame to separate it from the base of the crate.

**▲ CAUTION**

**Careless steel frame separation can injure a person.**

**Lift the steel frame with two persons.  
Wear proper protective clothes and gear.**

**NOTE:**

*Be careful not to damage the motorcycle when separating the steel frame.*

A: Steel frame  
B: Crate base



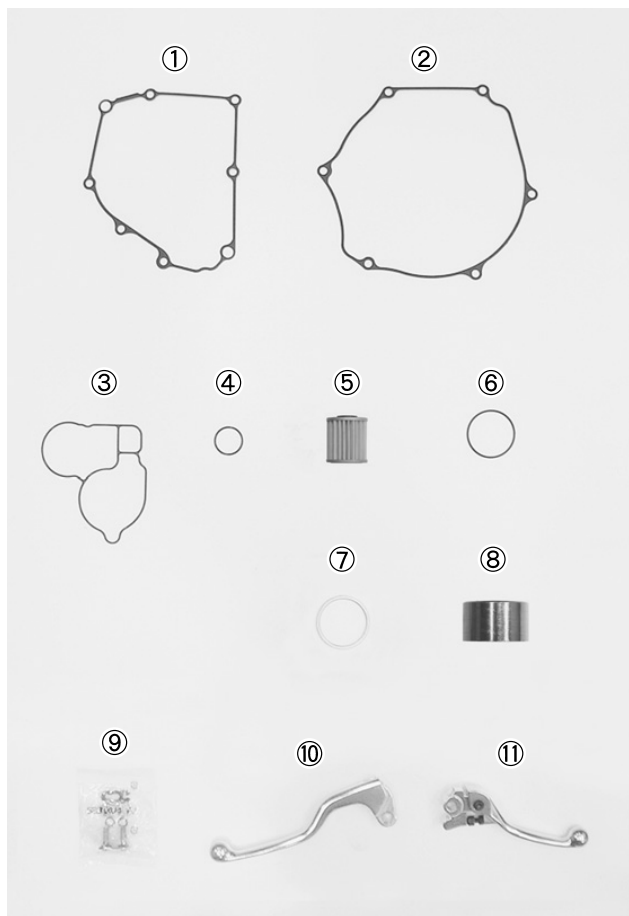
Open the vinyl package.

Take out the various component parts and spare parts packaged from the crate.

A: Component parts  
B: Spare parts

# SPARE PARTS

Check all spare parts.



Item	Part Name	Q'ty
①	Magneto cover gasket	1
②	Clutch cover outer gasket	1
③	Water pump case O-ring	1
④	Sprocket spacer O-ring	1
⑤	Engine oil filter comp	1
⑥	Oil filter cap O-ring	1
⑦	Exhaust pipe gasket	1
⑧	Muffler joint connector	1
⑨	Drive chain joint set	1
⑩	Clutch lever	1
⑪	Brake lever	1

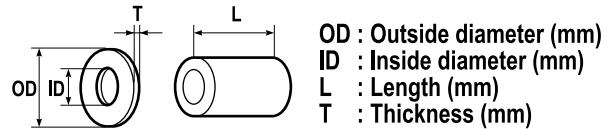
**NOTE:**

Please hand over the spare parts shown as Item ①–⑪ in the above table to your customer together with motorcycle.

# LOCATION OF PARTS

Check all the components which have been removed from the base of the crate.

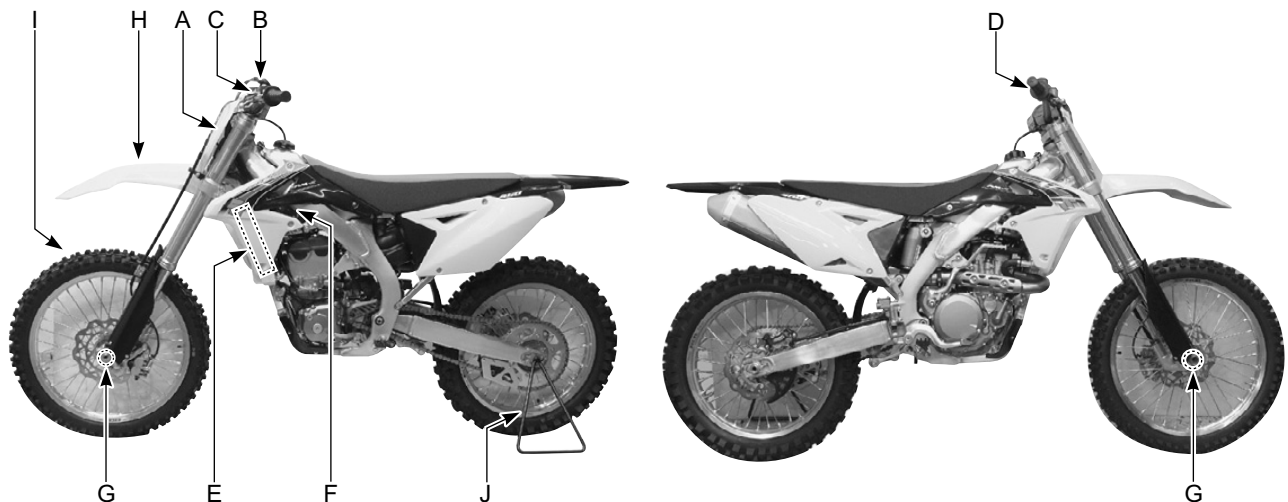
Item	Part Name	Q'ty	Remarks	Item	Part Name	Q'ty	Remarks
A	Number plate	1		F	Radiator cover	1	Left
	Flange bolt (with small washer)	1	6 × 12 mm		Flange bolt (with large washer)	2	6 × 12 mm
B	Handlebars assembly	1			Flange bolt	2	6 × 16 mm
	Handlebar clamp	1		Stepped washer	2	OD:18.0 ID:6.5 T:4.5	
	Flange bolt	4	8 × 35 mm	G	Front wheel spacer	2	
	Strap	1	L:100		Front axle nut	1	18 mm
	Strap	1	L:130	H	Front fender	1	
	Fuel tank vent hose	1			Flange bolt	4	6 × 16 mm
	Engine stop switch holder	2	Upper and Lower		Collared spacer	4	OD:25.0 ID:6.5 T:6.5
	Screw (with lock washer)	1	3 × 14 mm		Washer	4	OD:28.0 ID:6.5
	S-HAC switch holder	2	Front and Rear	I	Front wheel assembly	1	
	Screw (with lock washer)	1	4 × 14 mm		J	Stand	1
	Clutch lever cover	1		K	Spoke nipple wrench	1	Tool
	Clutch adjuster cover	1			L	Short wire (Coupler)	2
	C	Handlebar pad set	1		M	Fuel hose plug	1
Fuel pump cap						1	Special tool
D	Holder	1	For front brake master cylinder	N	Owner's service manual set	1	
	Flange bolt	2	6 × 22 mm				
E	Radiator louver	1	Left				

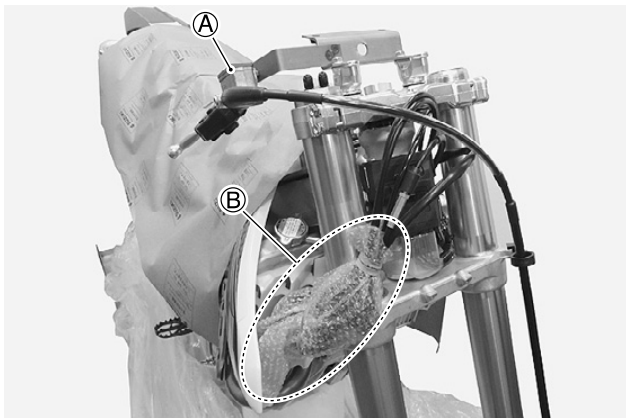
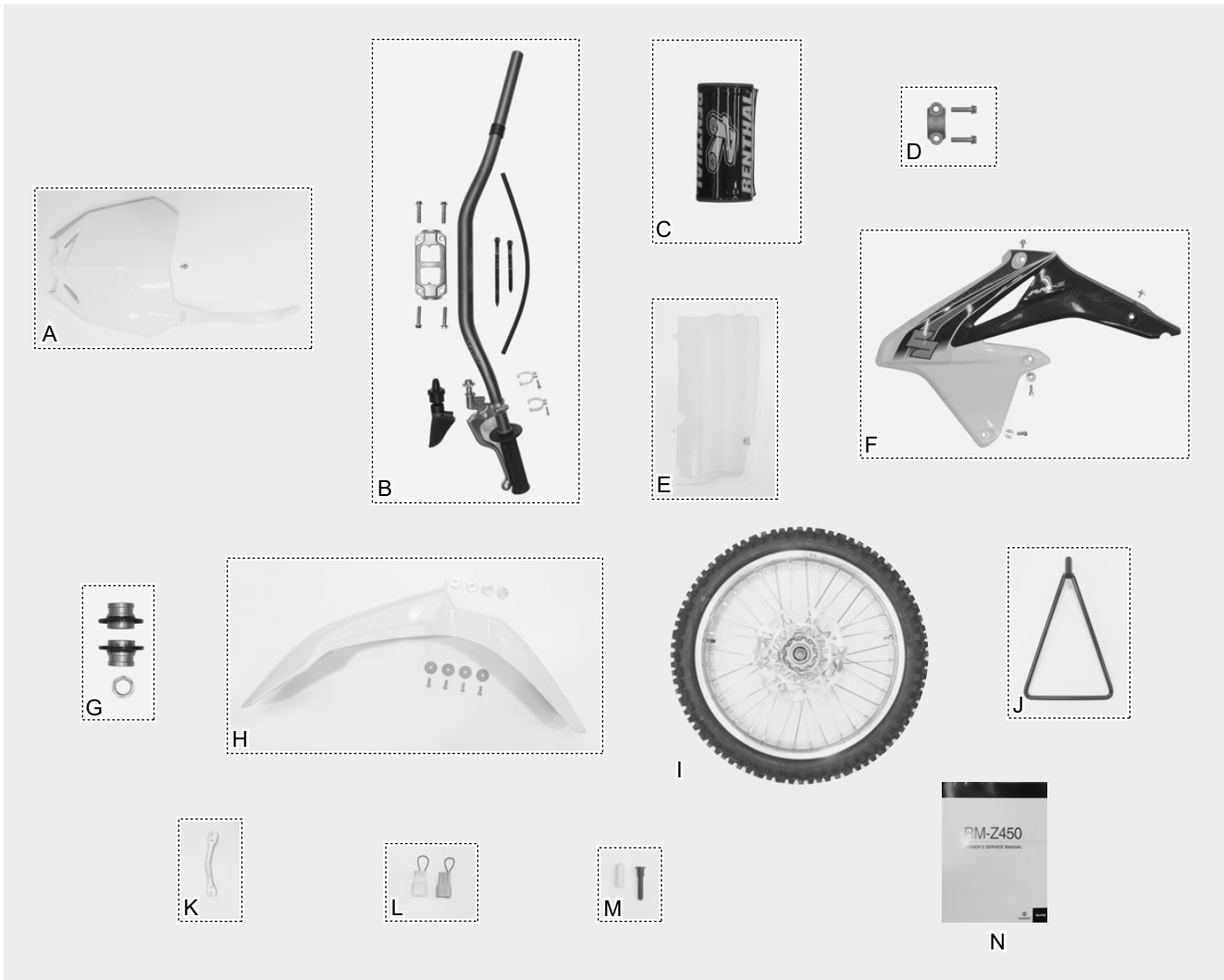


**NOTE:**

- Please hand over the parts shown as Item J, K, L, M and N in the above table to your customer together with motorcycle.
- S-HAC = SUZUKI holeshot assist control

Parts listed above are installed respectively into the positions as follows.





The photograph shown indicates the parts dismantled from the motorcycle in addition to the items shown in the preceding page.

- A: Front brake master cylinder
- B: Throttle assembly
- Engine stop switch
- Clutch cable
- S-HAC switch

Before assembling the motorcycle, thoroughly understand the “Safety Check Out” described on page 39.

After completion of assembly, carefully check the motorcycle referring to the “Safety Check Out”, then deliver the motorcycle to the customer.

## ASSEMBLY

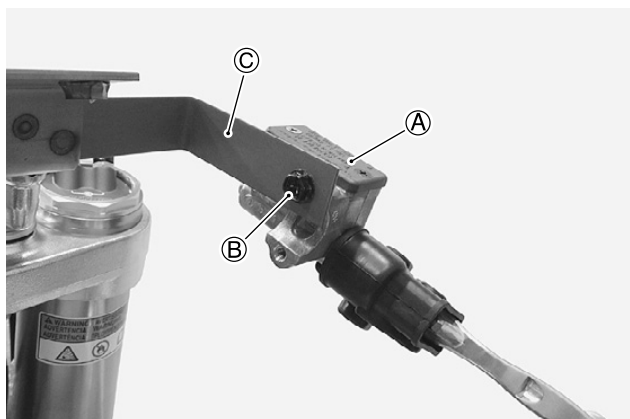
### REMOVING THE BRACKET

Remove the bolt to take off the front brake master cylinder from the bracket.

**NOTE:**

- *Keep the position of front brake master cylinder with its cap facing upwards until it is installed.*
- *The bolt is not necessary to assemble the motorcycle.*

A: Front brake master cylinder  
B: Bolt  
C: Bracket

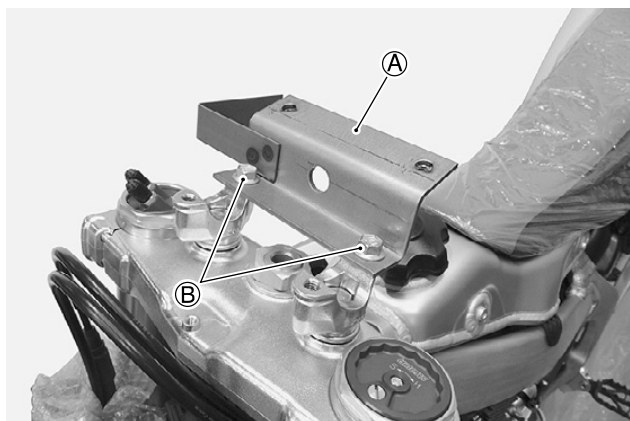


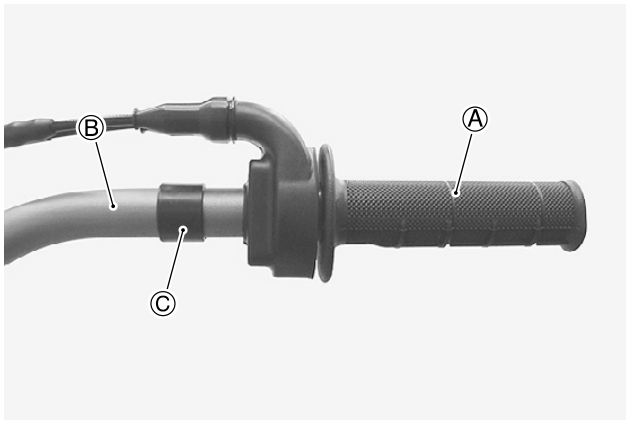
Remove the bolts to take off the bracket from the handlebar holder.

**NOTE:**

- *Be careful not to damage the fuel tank.*
- *The bracket and bolts are not necessary to assemble the motorcycle.*

A: Bracket  
B: Bolt





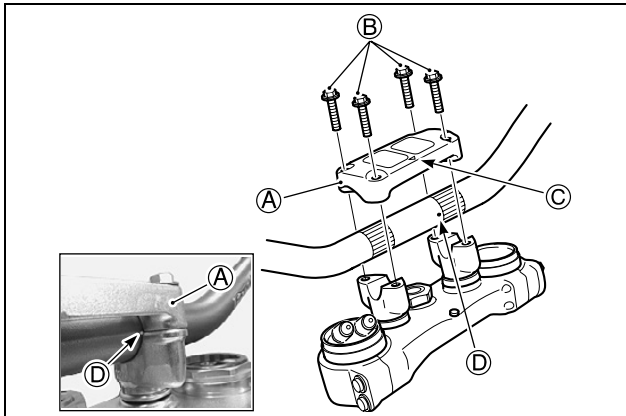
## HANDLEBARS

Loosen the throttle housing retaining screws.  
Insert the throttle assembly onto the handlebars.

**NOTE:**

*Check the spacer is onto the handlebars.*

- A: Throttle assembly
- B: Handlebars
- C: Spacer

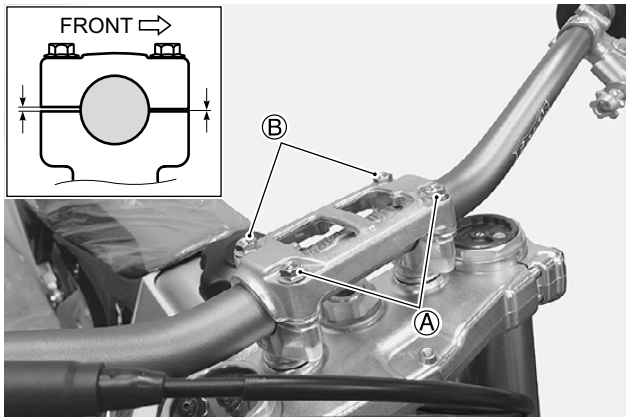


Install the handlebar assembly with the clamp and the four bolts.

**NOTE:**

- *Install the clamp with the arrow mark facing front.*
- *Align the matching mark on the handlebars with the mating surface of the left front side of the clamp.*

- A: Clamp
- B: 8 × 35 mm flange bolt
- C: Arrow mark
- D: Matching mark



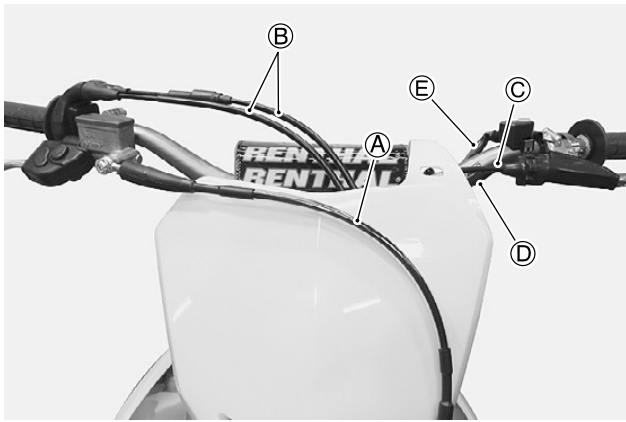
Tighten the handlebar clamp bolts to the specified torque.

**🔩 Handlebar clamp bolt: 25 N·m (2.5 kgf-m)**

**NOTE:**

- *First tighten the bolt (A) of the front side with specified torque and then tighten the bolt (B) of the rear side.*
- *Make sure that the clamp has no clearance at the front side.*

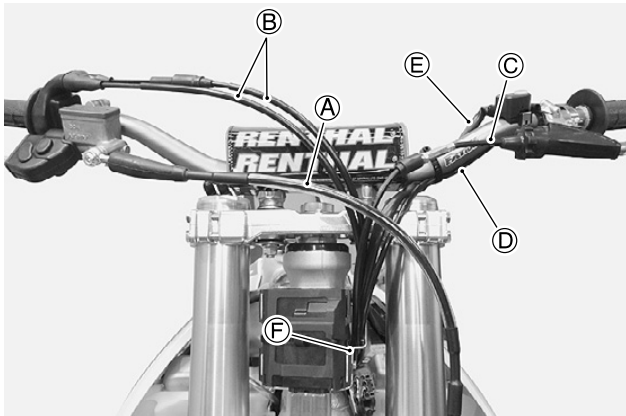
- A: 8 × 35 mm flange bolt
- B: 8 × 35 mm flange bolt

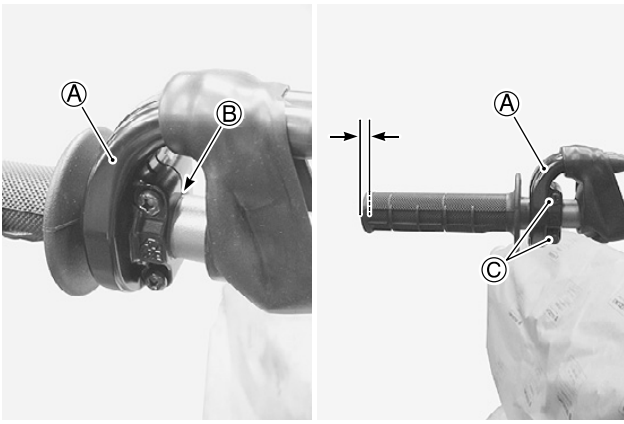


**NOTE:**

- The line drawings on page 37 and 38 show the proper routing of the control cables, hose and wirings.
- Refer to them in addition to following the instructions carefully.

- A: Front brake hose
- B: Throttle cables
- C: Clutch cable
- D: Engine stop switch wiring harness
- E: S-HAC switch wiring harness
- F: Cable guide





## THROTTLE

Align the matching mark on the handlebars with mating surface of the throttle housing.

Install the throttle assembly with two screws after the assembly is positioned so that there is approximately 0.5–1.0 mm of clearance between the grip end and the end of the handlebars.

### **⚠ WARNING**

**Improper throttle installing can interfere with smooth throttle grip operation. It can result in an accident.**

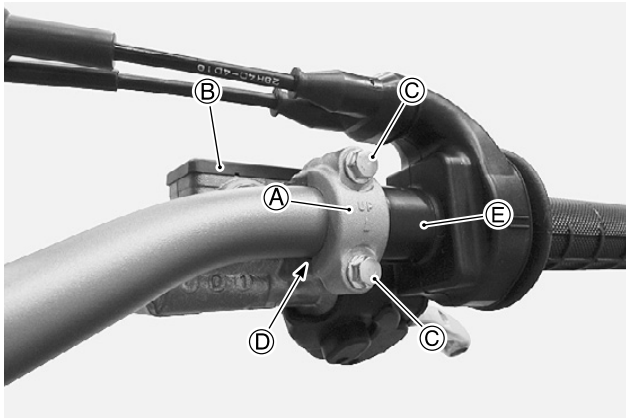
**Check to ensure that the throttle operates freely and closes automatically.**

- A: Throttle assembly
- B: Matching mark
- C: Screw



Fit the rubber cover onto the throttle housing.

- A: Rubber cover



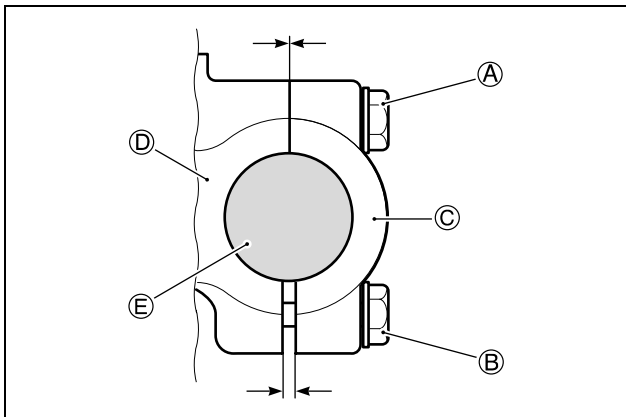
## FRONT BRAKE MASTER CYLINDER

Install the front brake master cylinder onto the handlebars.

### NOTE:

- Install the holder in position according to the mark "UP".
- Align the matching mark on the handlebars with the master cylinder-to-holder fitting surface.

A: Holder  
 B: Front brake master cylinder  
 C: 6 × 22 mm flange bolt  
 D: Matching mark  
 E: Spacer



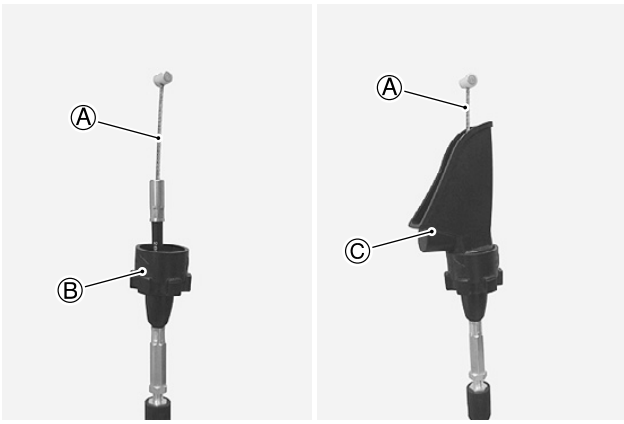
Tighten the front brake master cylinder mounting bolts to the specified torque.

 **Front brake master cylinder mounting bolt:**  
**10 N·m (1.0 kgf·m)**

### NOTE:

- First tighten the bolt **A** of the upper side with specified torque and then tighten the bolt **B** of the lower side.
- Make sure that the holder has no clearance at the upper side.

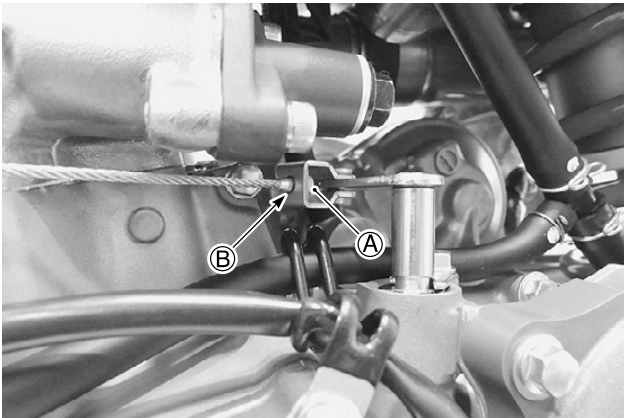
A: 6 × 22 mm flange bolt  
 B: 6 × 22 mm flange bolt  
 C: Holder  
 D: Front brake master cylinder  
 E: Handlebars



## CLUTCH CABLE

Pass the clutch cable through the adjuster cover and lever cover.

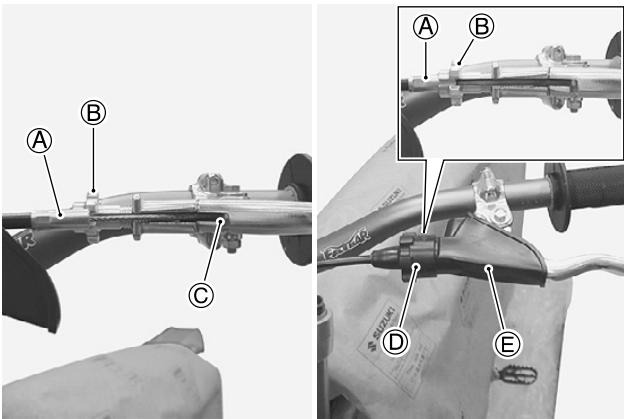
- A: Clutch cable
- B: Adjuster cover
- C: Lever cover



Check the clutch cable end.

Align the clutch cable end with the recess of clutch release arm.

- A: Cable end
- B: Recess (Clutch release arm)



Turn the clutch lever adjuster in as far as possible and align the slots.

Insert the inner cable end into the recess in the clutch lever, then pull on the outer cable housing and insert it into the adjuster.

Do not adjust at this time.

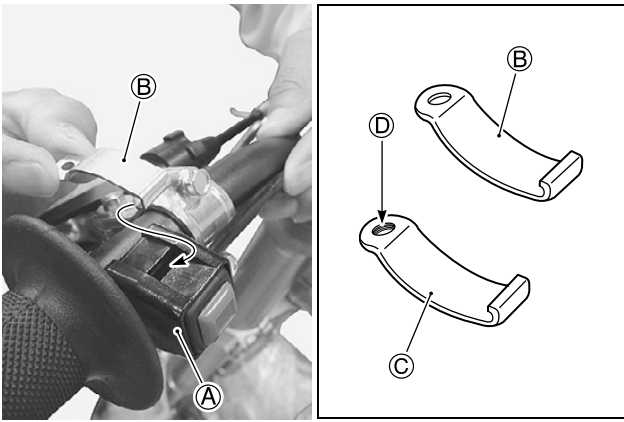
Adjustment will be covered in the SERVICING section.

**NOTE:**

*Before installing the cable, grease the cable end.*

Install the lever cover and adjuster cover.

- A: Clutch cable
- B: Adjuster
- C: Cable end
- D: Adjuster cover
- E: Lever cover



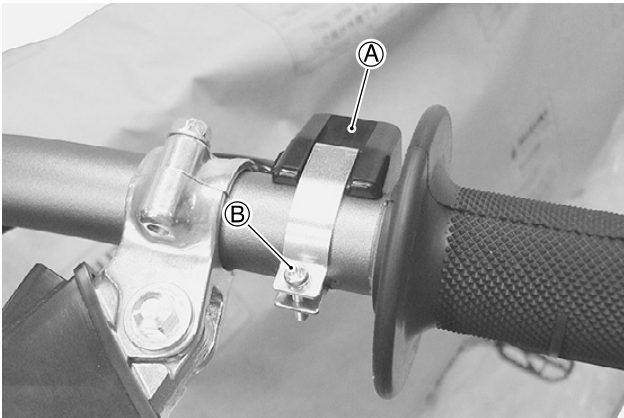
### ENGINE STOP SWITCH

Hook the holders on the grooves of the engine stop switch.

**NOTE:**

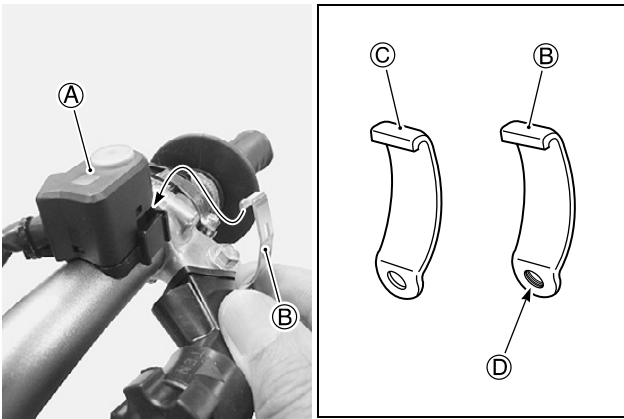
*Use the holder with an internal thread cutting at the lower side.*

- A: Engine stop switch
- B: Holder (Upper)
- C: Holder (Lower)
- D: Thread cutting



Install the engine stop switch to the left of handlebars.

- A: Engine stop switch
- B: 3 × 14 mm screw (with lock washer)



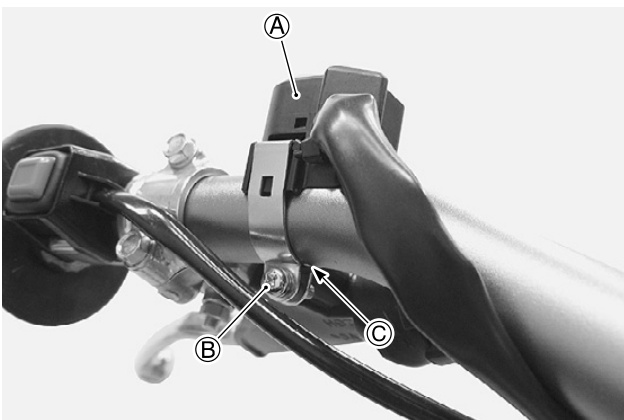
### S-HAC SWITCH

Hook the holders on the grooves of the S-HAC switch.

**NOTE:**

*Use the holder with an internal thread cutting at the front side.*

- A: S-HAC switch
- B: Holder (Front)
- C: Holder (Rear)
- D: Thread cutting

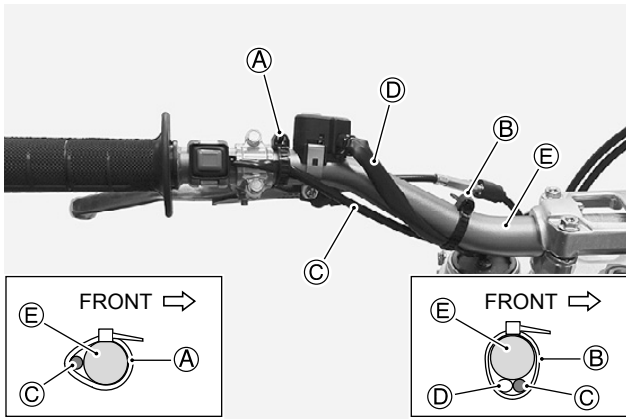


Install the S-HAC switch to the left of handlebars.

**NOTE:**

*Align the matching mark on the handlebars with mating surface of the S-HAC switch holder.*

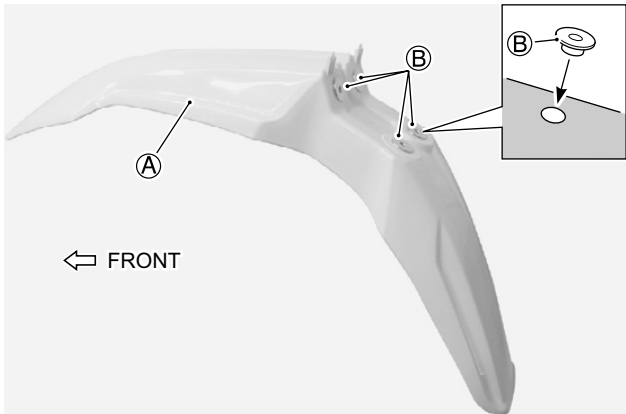
- A: S-HAC switch
- B: 4 × 14 mm screw (with lock washer)
- C: Matching mark



### CLAMP

Clamp the engine stop switch wiring harness and S-HAC switch wiring harness to the handlebars with strap.

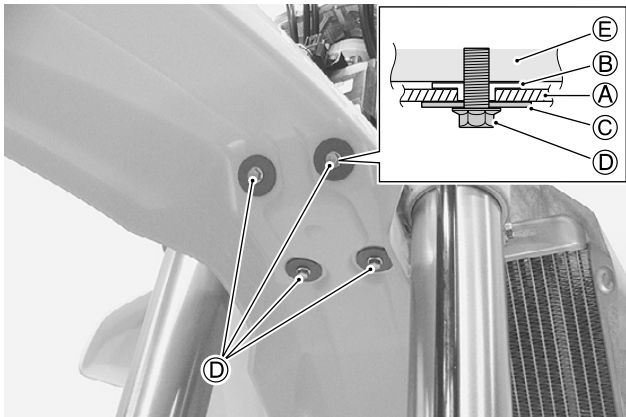
- A: Strap L:100 mm
- B: Strap L:130 mm
- C: Engine stop switch wiring harness
- D: S-HAC switch wiring harness
- E: Handlebars



### FRONT FENDER

Install the front fender with four sets of mounting parts as shown.

- A: Front fender
- B: Collared spacer OD:25.0 mm ID:6.5 mm T:6.5 mm

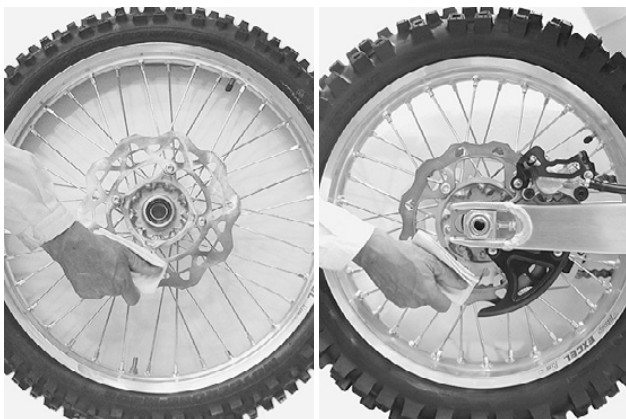


Install the front fender to the front fork lower bracket.

- A: Front fender
- B: Collared spacer OD:25.0 mm ID:6.5 mm T:6.5 mm
- C: Washer OD:28.0 mm ID:6.5 mm
- D: 6 x 16 mm flange bolt
- E: Front fork lower bracket

FRONT

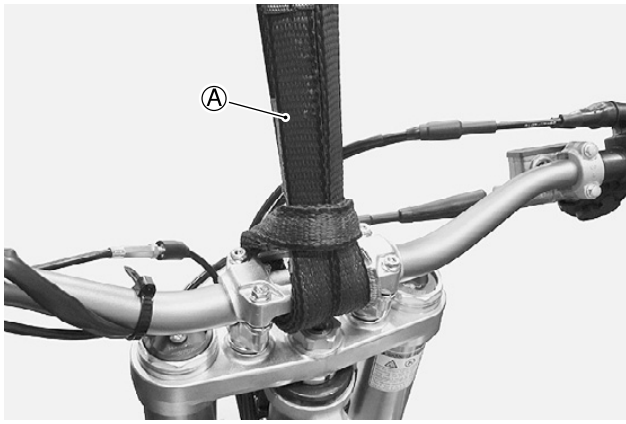
REAR



### BRAKE DISC

To prevent brake squeaking and pad contamination, carefully clean the front and rear brake disc plates with alcohol or other non-petroleum based solvent.

This will remove the rust-preventive coating and dirt.



## TAKING OUT THE MOTORCYCLE

Bind a hoist band around the handlebar clamps as shown in the photograph.

**NOTE:**

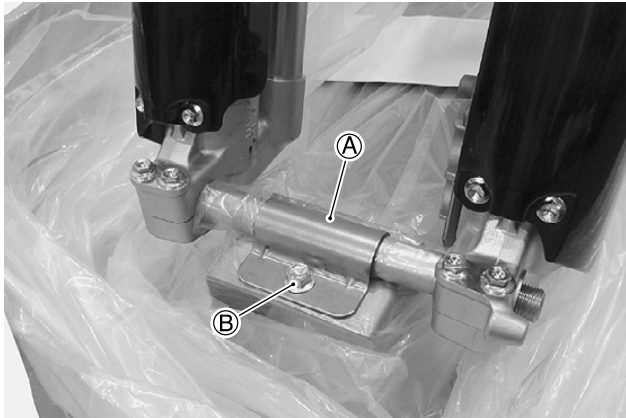
*Lift the motorcycle a little by using a hoist to prevent the motorcycle from falling down.*

**NOTICE**

**Binding a hoist band to the handlebar or grips can damage the motorcycle parts.**

**Be sure to bind a hoist band around the handlebar clamps.**

A: Hoist band



Remove the crate axle bracket from the crate base.

**NOTE:**

*The bracket and bolt are not necessary to assemble the motorcycle.*

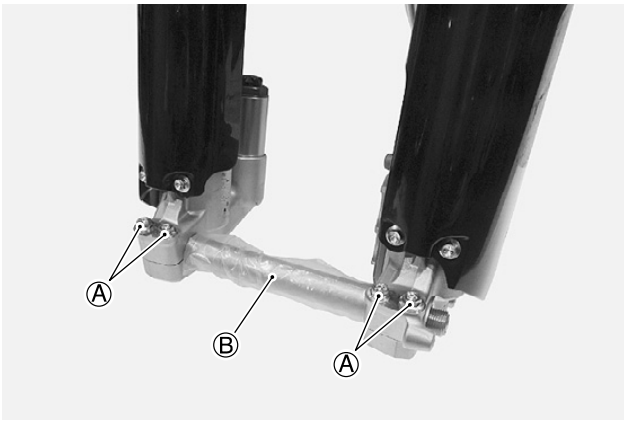
A: Crate axle bracket  
B: Bolt



①. Lift the front of motorcycle by using a hoist.

②. Raise the rear of motorcycle.

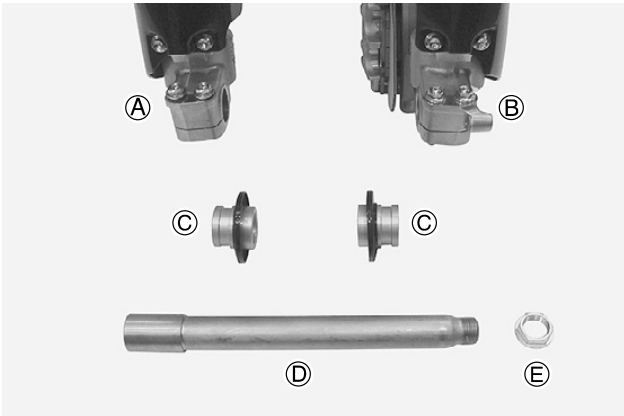
③. Pull the crate base forward, then balance the motorcycle.



## FRONT WHEEL

Loosen the axle holder bolts.  
Remove the front axle from the fork legs.

- A: Axle holder bolt
- B: Front axle

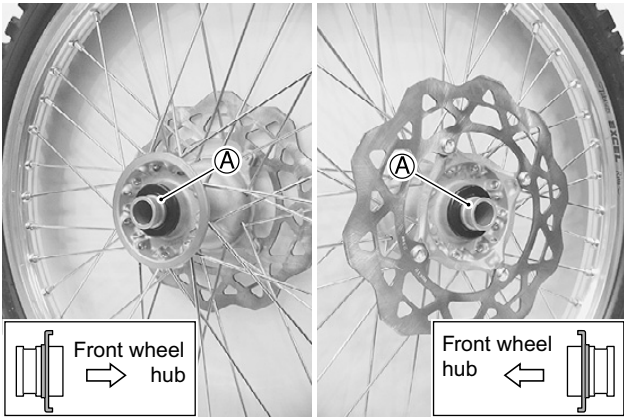


Mount the front wheel assembly properly.

- A: Right fork leg
- B: Left fork leg
- C: Front wheel spacer
- D: Front axle
- E: Axle nut (18 mm flange nut)

RIGHT

LEFT

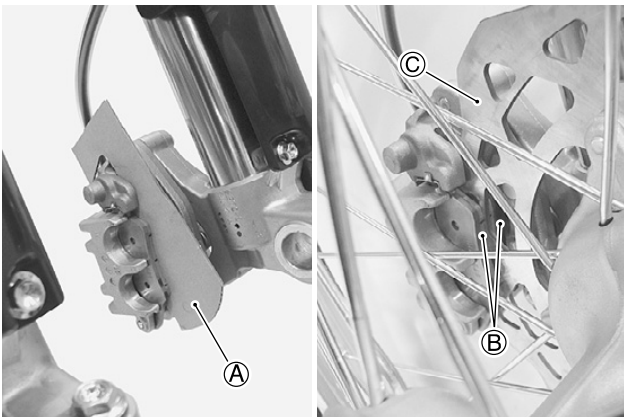


Attach the front wheel spacer to the front wheel hub.

### NOTE:

- The spacer faces at the correct direction as shown in the illustration.
- When attaching the front wheel spacer, be careful not to damage the oil seal lip.

- A: Front wheel spacer



Remove the supporter from the brake pad of the left front brake caliper.

Carefully insert the front brake disc plate between the caliper brake pads.

- A: Supporter
- B: Pads
- C: Disc plate



Insert the front axle from the right side of fork leg and fix the front wheel assembly to the front fork.

### **NOTICE**


**Forcing to install the front axle can damage the motorcycle.**

**Align the shaft line of front forks and wheel.  
Install the front axle by hand.**

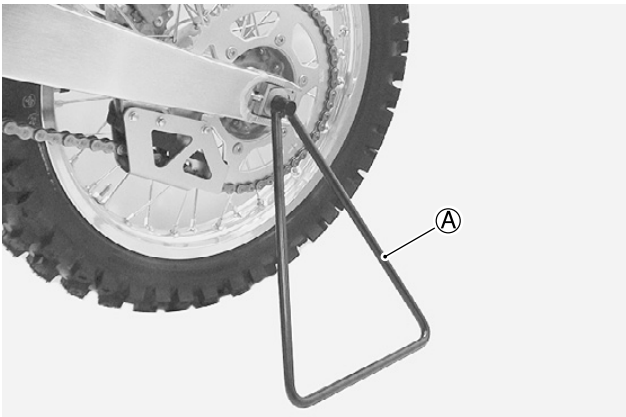
A: Front axle



Tighten the front axle nut to the specified torque.

 **Front axle nut: 35 N·m (3.5 kgf-m)**

A: Axle nut



### **STAND**

Insert the boss of stand to the hole of rear axle shaft.

A: Stand



Place the motorcycle on the stand, then remove the hoist hook.



Extract the stand.  
Move the front fork up and down hard 4 or 5 times.

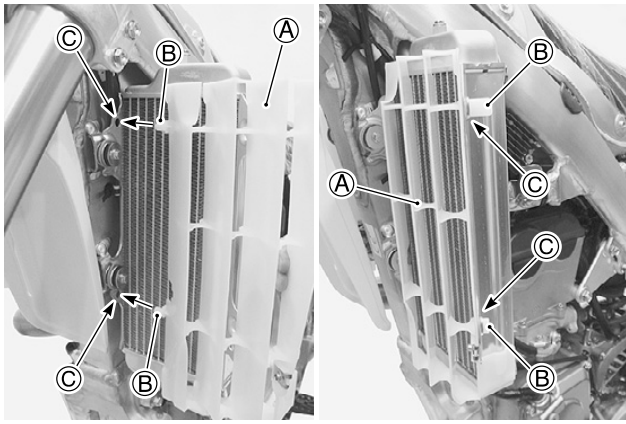


Tighten the axle holder bolts to the specified torque.

 **Front axle holder bolt: 21 N·m (2.1 kgf-m)**

A: Axle holder bolt

Place the motorcycle on the stand.

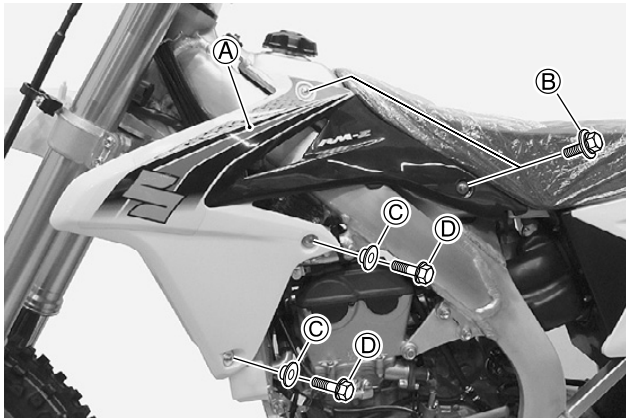


### RADIATOR LOUVER

Insert the boss of radiator louver into the hole of radiator.

Set the radiator louver as shown in the photograph.

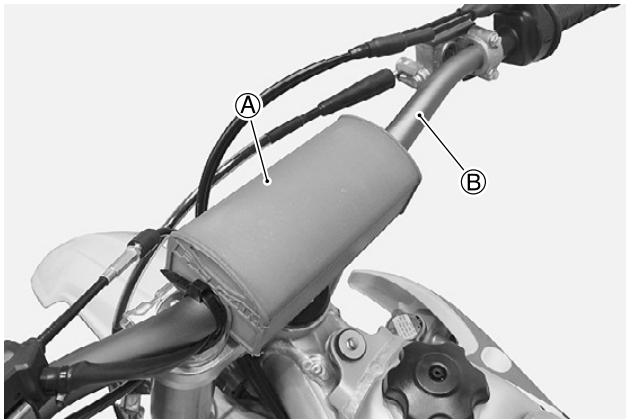
- A: Radiator louver
- B: Boss
- C: Hole



### RADIATOR COVER

Install the radiator cover with flange bolt and stepped washer.

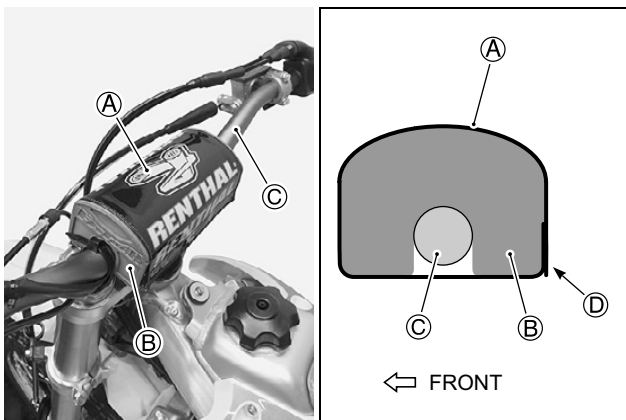
- A: Radiator cover
- B: 6 × 12 mm flange bolt (with large washer)
- C: Stepped washer OD:18.0 mm ID:6.5 mm T:4.5 mm
- D: 6 × 16 mm flange bolt



### HANDLEBAR PAD

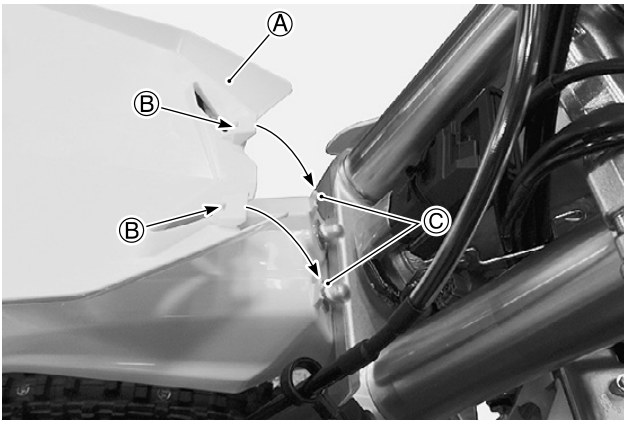
Set the handlebar pad to the handlebar.

- A: Handlebar pad
- B: Handlebars



Install the handlebar pad cover as shown in the illustration.

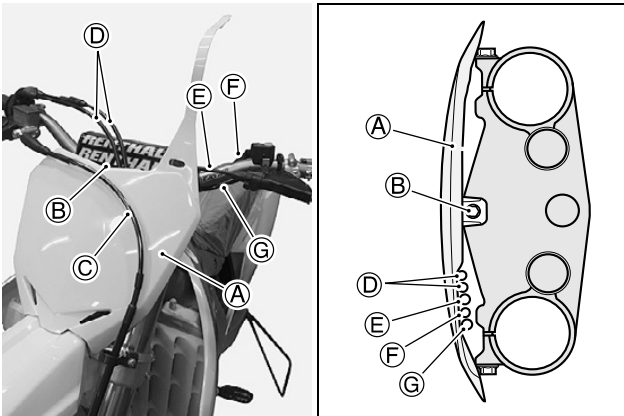
- A: Handlebar pad cover
- B: Handlebar pad
- C: Handlebars
- D: Velcro fastening



## NUMBER PLATE

Insert the hole of the front number plate to the boss of front fender.

- A: Number plate
- B: Hole
- C: Boss

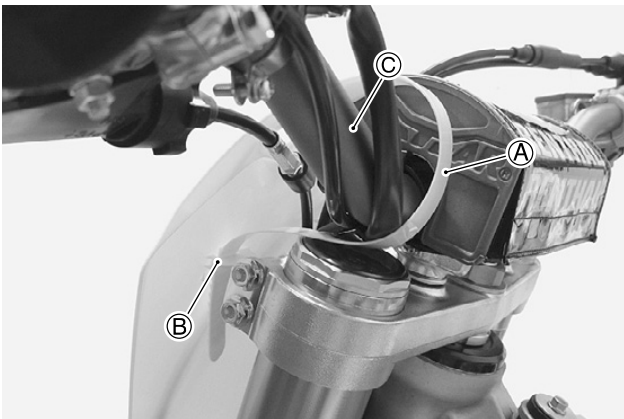


Install the front number plate with flange bolt.

### NOTE:

- Route the brake hose in front of the number plate.
- Route the throttle cable, clutch cable, S-HAC switch wiring harness and engine stop switch wiring harness behind the number plate as shown.

- A: Number plate
- B: 6 × 12 mm flange bolt (with small washer)
- C: Front brake hose
- D: Throttle cable
- E: Clutch cable
- F: S-HAC switch wiring harness
- G: Engine stop switch wiring harness



Pass the strap of the number plate around the handlebars.

Fit the strap of the number plate into the guide.

- A: Strap
- B: Guide
- C: Handlebar



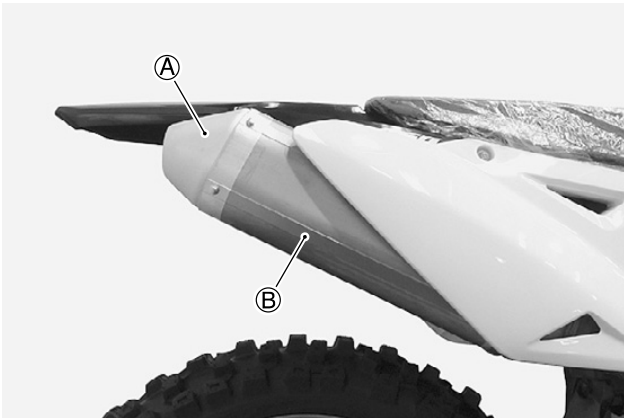
### FUEL TANK VENT HOSE

Install the fuel tank vent hose to the fuel tank cap. Insert the free end of fuel tank vent hose to the hole of steering shaft.

**NOTE:**

*Be sure not to bend or twist the hose when installing.*

- A: Fuel tank vent hose
- B: Fuel tank cap
- C: Hole (Steering shaft)



### REMOVING THE WRAP FILM

Remove the wrap film from the muffler.

- A: Muffler
- B: Wrap film