



**YAMAHA**

**2005**

**YBR125ED**

**3D9-F8197-E0**

**SERVICE MANUAL**

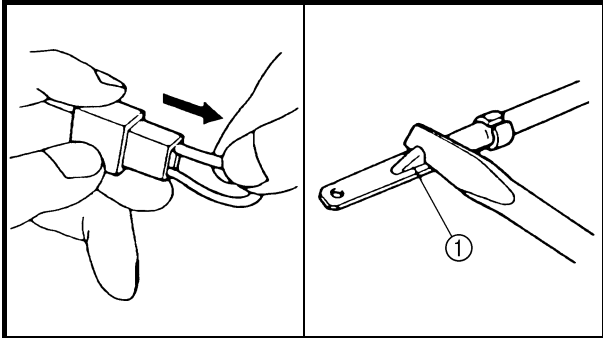
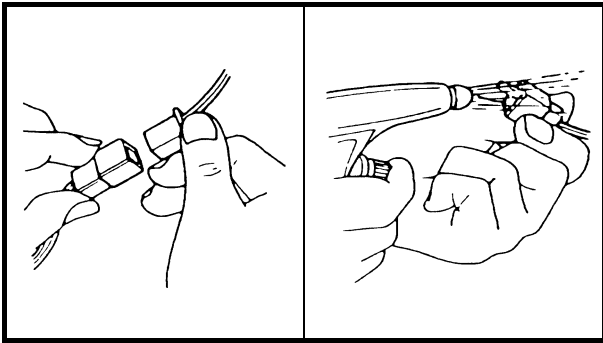
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EAS00026

## CHECKING THE CONNECTIONS

Check the leads, couplers, and connectors for stains, rust, moisture, etc.

1. Disconnect:

- lead
- coupler
- connector

2. Check:

- lead
- coupler
- connector

Moisture → Dry with an air blower.

Rust/stains → Connect and disconnect several times.

3. Check:

- all connections

Loose connection → Connect properly.

**NOTE:** \_\_\_\_\_

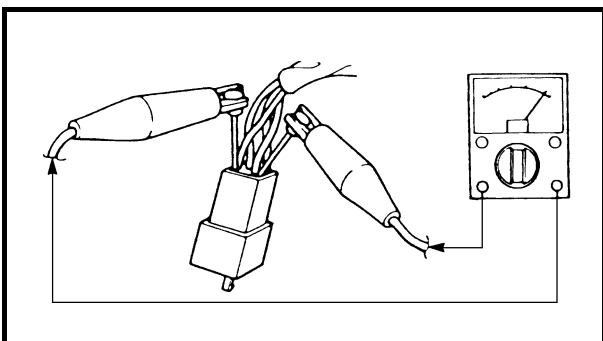
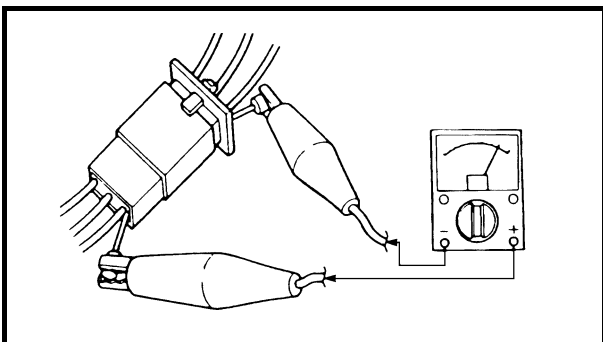
If the pin ① on the terminal is flattened, bend it up.

4. Connect:

- lead
- coupler
- connector


**NOTE:** \_\_\_\_\_

Make sure all connections are tight.



5. Check:

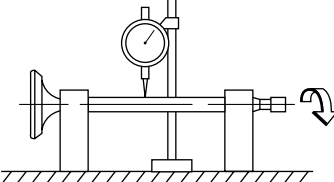
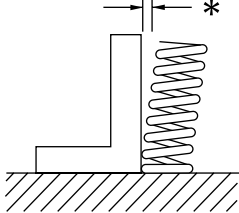
- continuity  
(with the pocket tester)

	<b>Pocket tester</b> 90890-03112, YU-03112-C
---	---

**NOTE:** \_\_\_\_\_

- If there is no continuity, clean the terminals.
- When checking the wire harness, perform steps (1) to (3).
- As a quick remedy, use a contact revitalizer available at most part stores.



Item	Standard	Limit
Valve stem runout 	----	0.010 mm (0.0004 in)
Valve seat width (cylinder head side) Intake Exhaust	0.90 ~ 1.10 mm (0.0354 ~ 0.0433 in) 0.90 ~ 1.10 mm (0.0354 ~ 0.0433 in)	1.6 mm (0.06 in) 1.6 mm (0.06 in)
<b>Valve springs</b>		
Free length		
Intake Exhaust	47.06 mm (1.85 in) 47.06 mm (1.85 in)	44.71 mm (1.76 in) 44.71 mm (1.76 in)
Installed length (valve closed)		
Intake Exhaust	25.6 mm (1.01 in) 25.6 mm (1.01 in)	---- ----
Spring rate		
Intake (K1)	8.01 N/mm (0.82 kg/mm, 45.74 ft · lb)	----
Exhaust (K1)	8.01 N/mm (0.82 kg/mm, 45.74 ft · lb)	----
Intake (K2)	9.33 N/mm (0.95 kg/mm, 53.27 ft · lb)	----
Exhaust (K2)	9.33 N/mm (0.95 kg/mm, 53.27 ft · lb)	----
Compressed spring force (installed)		
Intake	160.0 ~ 184.0 N (16.32 ~ 18.76 kg, 35.97 ~ 41.36 lb)	----
Exhaust	160.0 ~ 184.0 N (16.32 ~ 18.76 kg, 35.97 ~ 41.36 lb)	----
Spring tilt *		
		
Intake	----	2.5°/2.1 mm (2.5°/0.08 in)
Exhaust	----	2.5°/2.1 mm (2.5°/0.08 in)
Winding direction (top view)		
Intake	Clockwise	----
Exhaust	Clockwise	----

# ELECTRICAL SPECIFICATIONS

**SPEC**



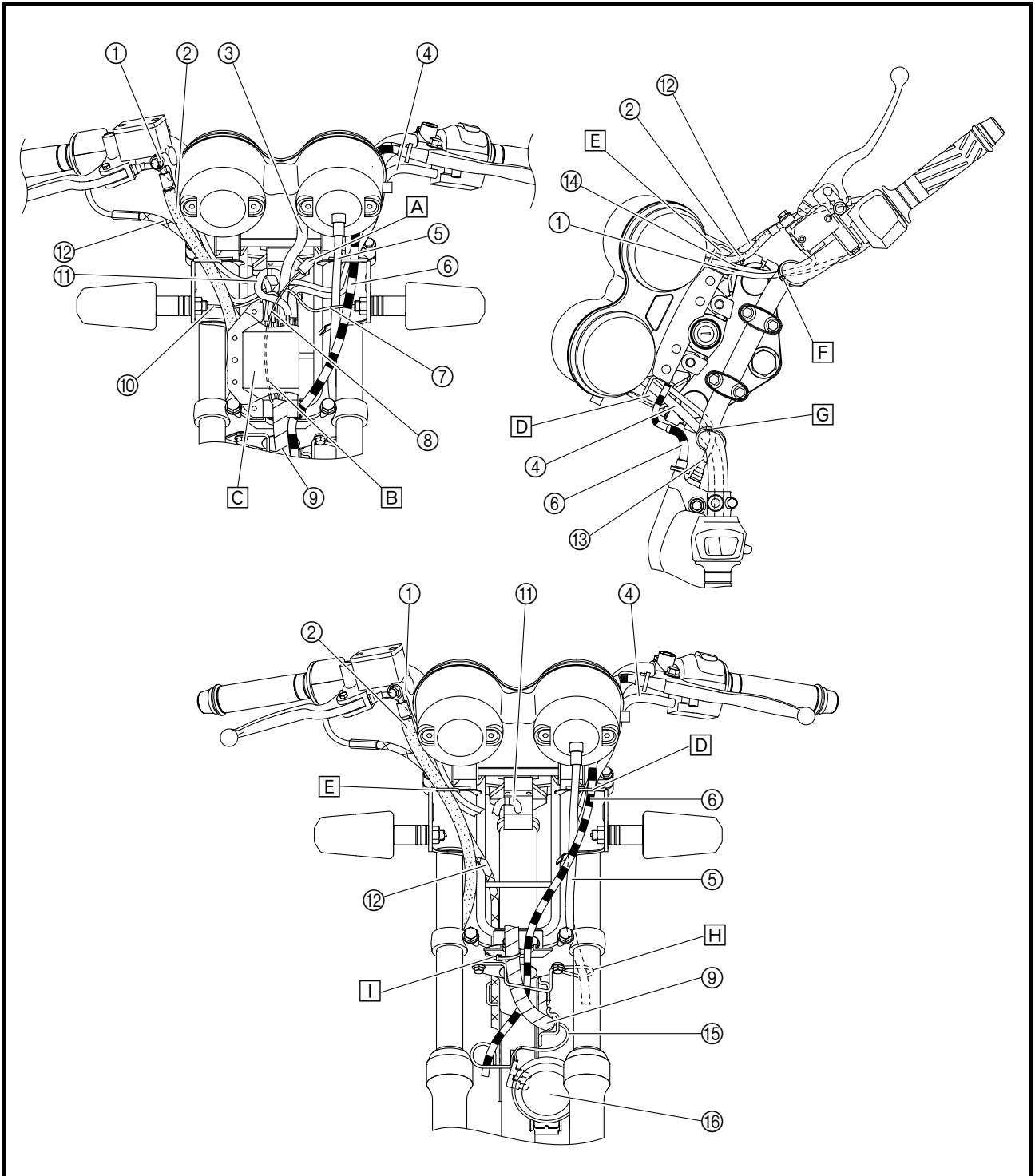
Item	Standard	Limit
<b>Indicator lights (voltage/wattage × quantity)</b>		
Neutral indicator light	14 V 3 W × 1	----
Turn signal indicator light	14 V 3 W × 2	----
High beam indicator light	14 V 3 W × 1	----
<b>Electric starting system</b>		
System type	Constant mesh	----
<b>Starter motor</b>		
Model/manufacture	3D9/SHY	----
Power output	0.4 kW	----
Armature resistance	0.017 ~ 0.021 Ω	----
Brushes		
Overall length	10.0 mm (0.39 in)	3.5 mm (0.14 in)
Spring force	5.52 ~ 8.28 N (563 ~ 844 gf, 19.87 ~ 29.80 oz)	----
Commutator diameter	22.0 mm (0.87 in)	21.0 mm (0.83 in)
Mica undercut	1.5 mm (0.06 in)	----
<b>Starter relay</b>		
Model/manufacture	SANXIN	----
Amperage	150 A	----
Coil resistance	3.6 ~ 4.4 Ω	----
<b>Horn</b>		
Horn type	Plane	----
Model/manufacture × quantity	YF-12/NIKKO × 1	----
Maximum amperage	3.0 A	----
Coil resistance	1.15 ~ 1.25 Ω	----
Performance	105 ~ 120 dB/2 m	----
<b>Turn signal relay</b>		
Relay type	Condenser	----
Self-cancelling device built-in	No	----
Turn signal blinking frequency	75 ~ 95 cycles/min.	----
Wattage	10 W × 2 + 1.7 W	----
<b>Fuel gauge</b>		
Model/manufacture	LOCAL MADE	----
Sender unit resistance- full	4 ~ 10 Ω at 20 °C (68 °F)	----
Sender unit resistance- empty	90 ~ 100 Ω at 20 °C (68 °F)	----
<b>Fuses (amperage × quantity)</b>		
Fuse	15 A	----
Spare fuse	15 A	----



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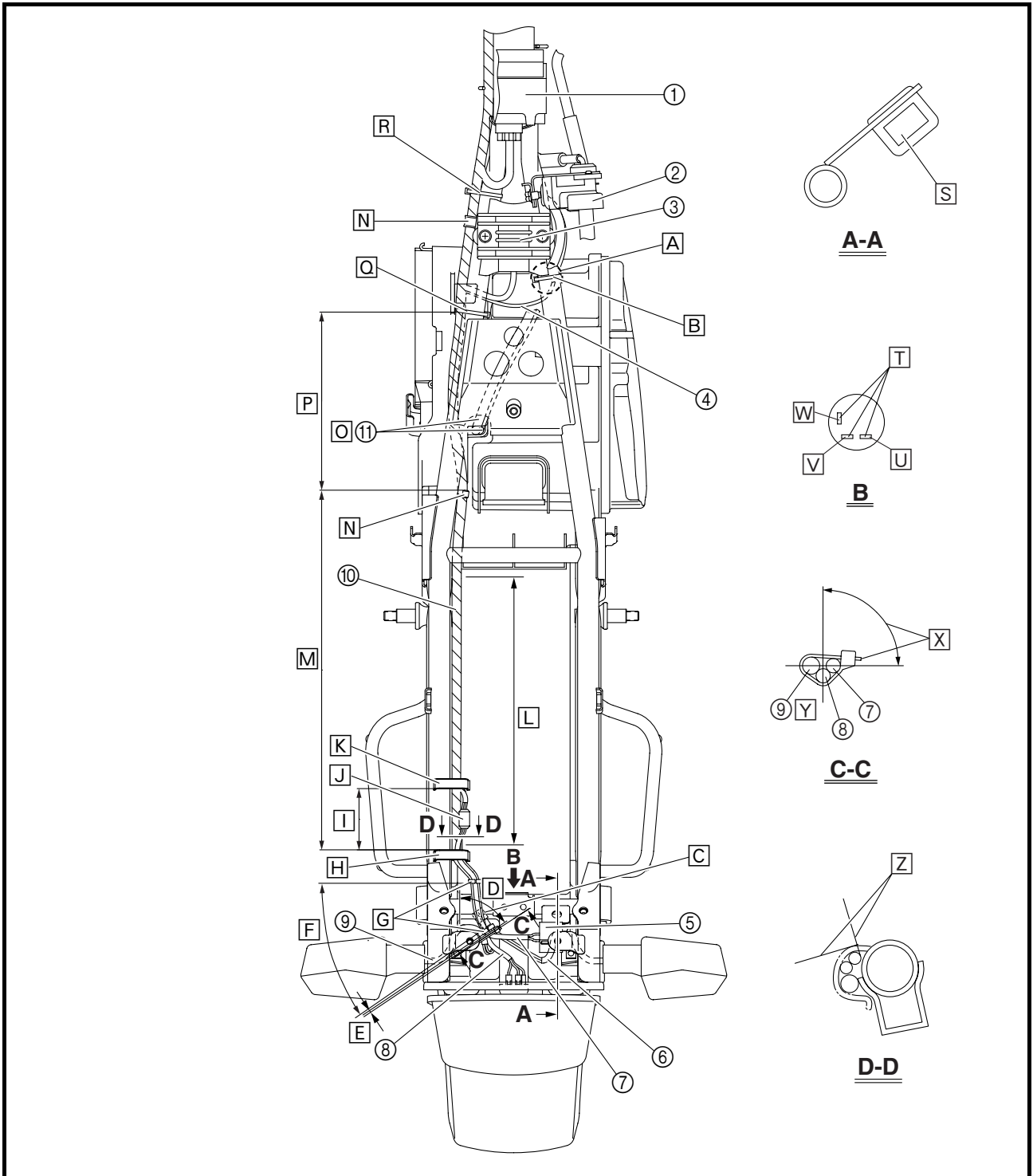
**CABLE ROUTING**

- ① Front brake light switch lead
  - ② Front brake hose
  - ③ Meter assembly lead
  - ④ Left handlebar switch lead
  - ⑤ Speedometer cable
  - ⑥ Clutch cable
  - ⑦ Front turn signal light lead (left)
  - ⑧ Headlight assembly lead
  - ⑨ Wire harness
  - ⑩ Front turn signal light lead (right)
  - ⑪ Main switch lead
  - ⑫ Throttle cable
  - ⑬ Clutch switch lead
  - ⑭ Right handlebar switch lead
  - ⑮ Horn lead
  - ⑯ Horn
- Ⓐ To headlight assembly



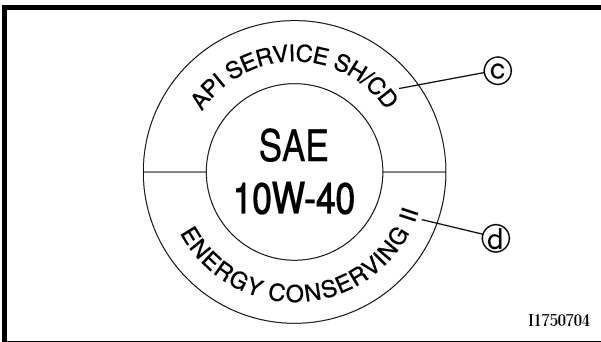
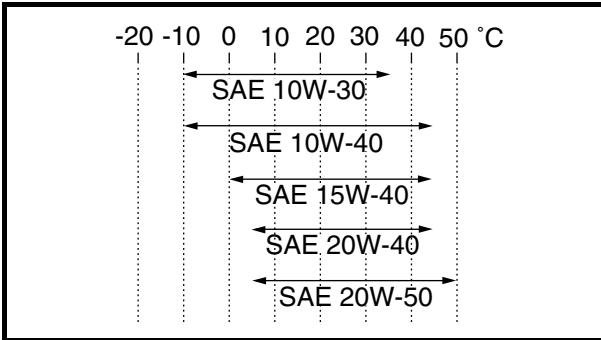
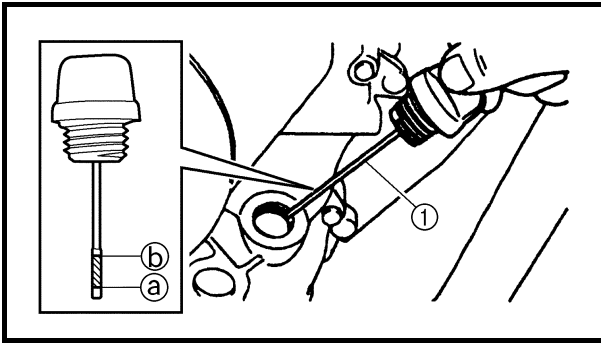


- W Black
- X Cut off the excess end of the plastic locking tie to 2 mm or less, and then face the end of the tie inward and upward in the range shown in the illustration.
- Y Be sure to fasten the rear turn signal light lead (left) on its protective sleeve with the plastic locking tie.
- Z The wire harness should not protrude past the lines shown in the illustration.





## CHECKING THE ENGINE OIL LEVEL



### 3. Check:

- engine oil level

The engine oil level should be between the minimum level mark ① and maximum level mark ②.

Below the minimum level mark → Add the recommended engine oil to the proper level.

#### NOTE:

- Before checking the engine oil level, wait a few minutes until the oil has settled.
- Do not screw the dipstick ① in when checking the oil level.



#### Recommended oil

Refer to the chart for the engine oil grade which is best suited for certain atmospheric temperatures.

API standard  
SE or higher grade

#### CAUTION:

- Engine oil also lubricates the clutch and the wrong oil types or additives could cause clutch slippage. Therefore, do not add any chemical additives or use engine oils with a grade of CD ③ or higher and do not use oils labeled “ENERGY CONSERVING II” ④ or higher.
- Do not allow foreign materials to enter the crankcase.

#### NOTE:

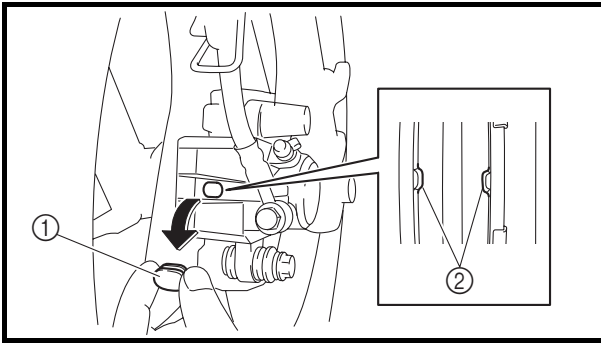
Before checking the engine oil level, wait a few minutes until the oil has settled.

4. Start the engine, warm it up for several minutes, and then turn it off.
5. Check the engine oil level again.

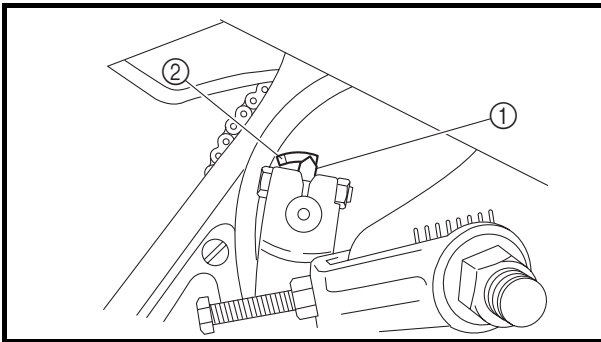
#### NOTE:

Before checking the engine oil level, wait a few minutes until the oil has settled.

**CHECKING THE FRONT BRAKE PADS/  
CHECKING THE REAR BRAKE SHOES/  
ADJUSTING THE REAR BRAKE LIGHT SWITCH**



2. Remove:
  - check plug ①
3. Check:
  - front brake padWear indicators ② almost touch the brake disc → Replace the brake pads as a set. Refer to “REPLACING THE FRONT BRAKE PADS” in chapter 4.
4. Install:
  - check plug



EAS00126

**CHECKING THE REAR BRAKE SHOES**

1. Operate the brake.
2. Check:
  - wear indicator ①Reaches the wear limit line ② → Replace the brake shoes as a set. Refer to “REAR WHEEL, BRAKE SHOE PLATE, AND REAR WHEEL SPROCKET” in chapter 4.

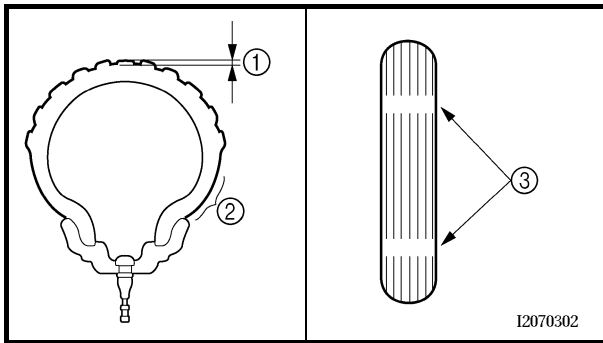
EAS00128

**ADJUSTING THE REAR BRAKE LIGHT SWITCH**

**NOTE:** \_\_\_\_\_  
The rear brake light switch is operated by movement of the brake pedal. The rear brake light switch is properly adjusted when the brake light comes on just before the braking effect starts.

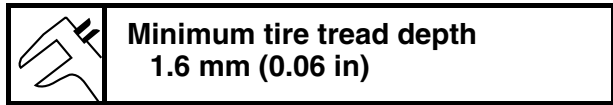
1. Remove:
  - right side coverRefer to “SIDE COVERS, SEAT AND FUEL TANK”.
2. Check:
  - rear brake light operation timingIncorrect → Adjust.

## CHECKING THE TIRES



### 2. Check:

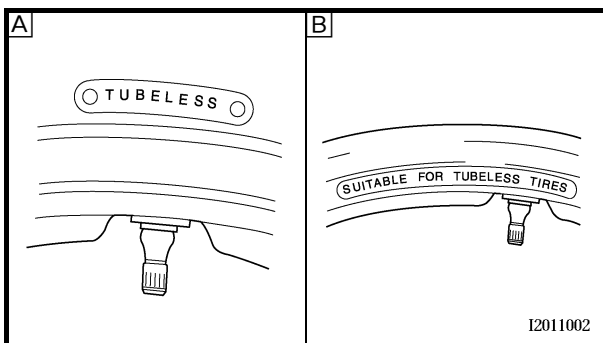
- tire surfaces  
Damage/wear → Replace the tire.



- ① Tire tread depth
- ② Sidewall
- ③ Wear indicator

### **⚠ WARNING**

- Do not use a tubeless tire on a wheel designed only for tube tires to avoid tire failure and personal injury from sudden deflation.
- When using tube tires, be sure to install the correct tube.
- Always replace a new tube tire and a new tube as a set.
- To avoid pinching the tube, make sure the wheel rim band and tube are centered in the wheel groove.
- Patching a punctured tube is not recommended. If it is absolutely necessary to do so, use great care and replace the tube as soon as possible with a good quality replacement.



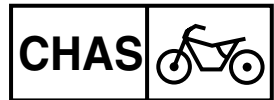
- Ⓐ Tire
- Ⓑ Wheel

Tube wheel	Tube tire only
Tubeless wheel	Tube or tubeless tire

- After extensive tests, the tires listed below have been approved by Yamaha Motor Co., Ltd. for this model. The front and rear tires should always be by the same manufacturer and of the same design. No guarantee concerning handling characteristics can be given if a tire combination other than one approved by Yamaha is used on this vehicle.

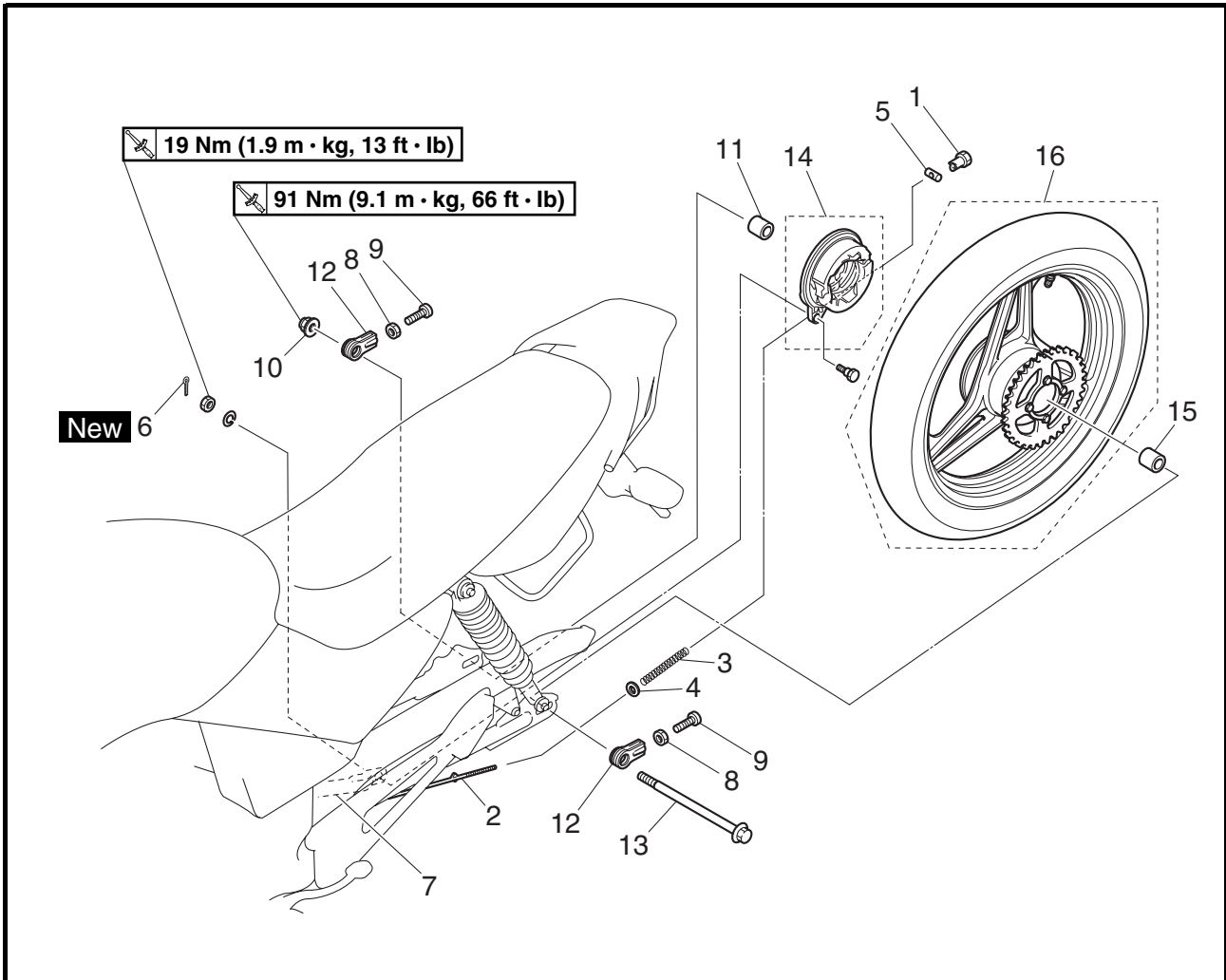


# REAR WHEEL, BRAKE SHOE PLATE, AND REAR WHEEL SPROCKET



EAS00553

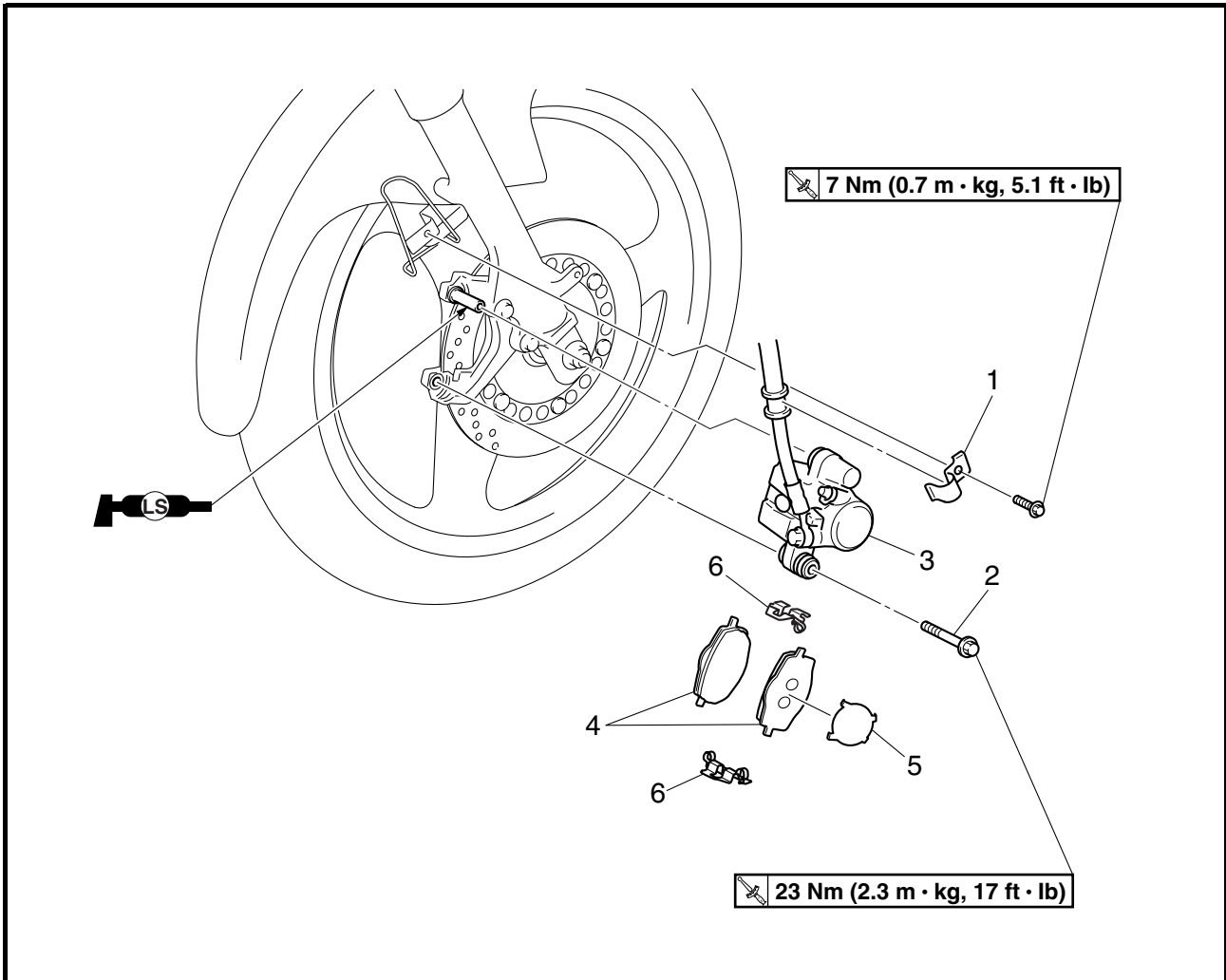
## REAR WHEEL, BRAKE SHOE PLATE, AND REAR WHEEL SPROCKET REAR WHEEL



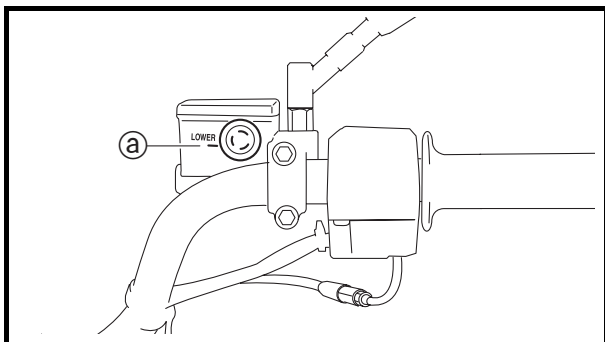
Order	Job/Part	Q'ty	Remarks
	<b>Removing the rear wheel</b>		Remove the parts in the order listed.
			<b>NOTE:</b> _____ Place the vehicle on a suitable stand so that the rear wheel is elevated.
1	Brake rod adjusting nut	1	Refer to "REMOVING THE REAR WHEEL".
2	Brake rod	1	
3	Compression spring	1	
4	Washer	1	
5	Pin	1	
6	Cotter pin	1	
7	Brake torque rod	1	
8	Chain puller locknut	2	
9	Chain puller adjusting bolt	2	
10	Wheel axle nut	1	

EAS00576

**FRONT BRAKE**  
**FRONT BRAKE PADS**

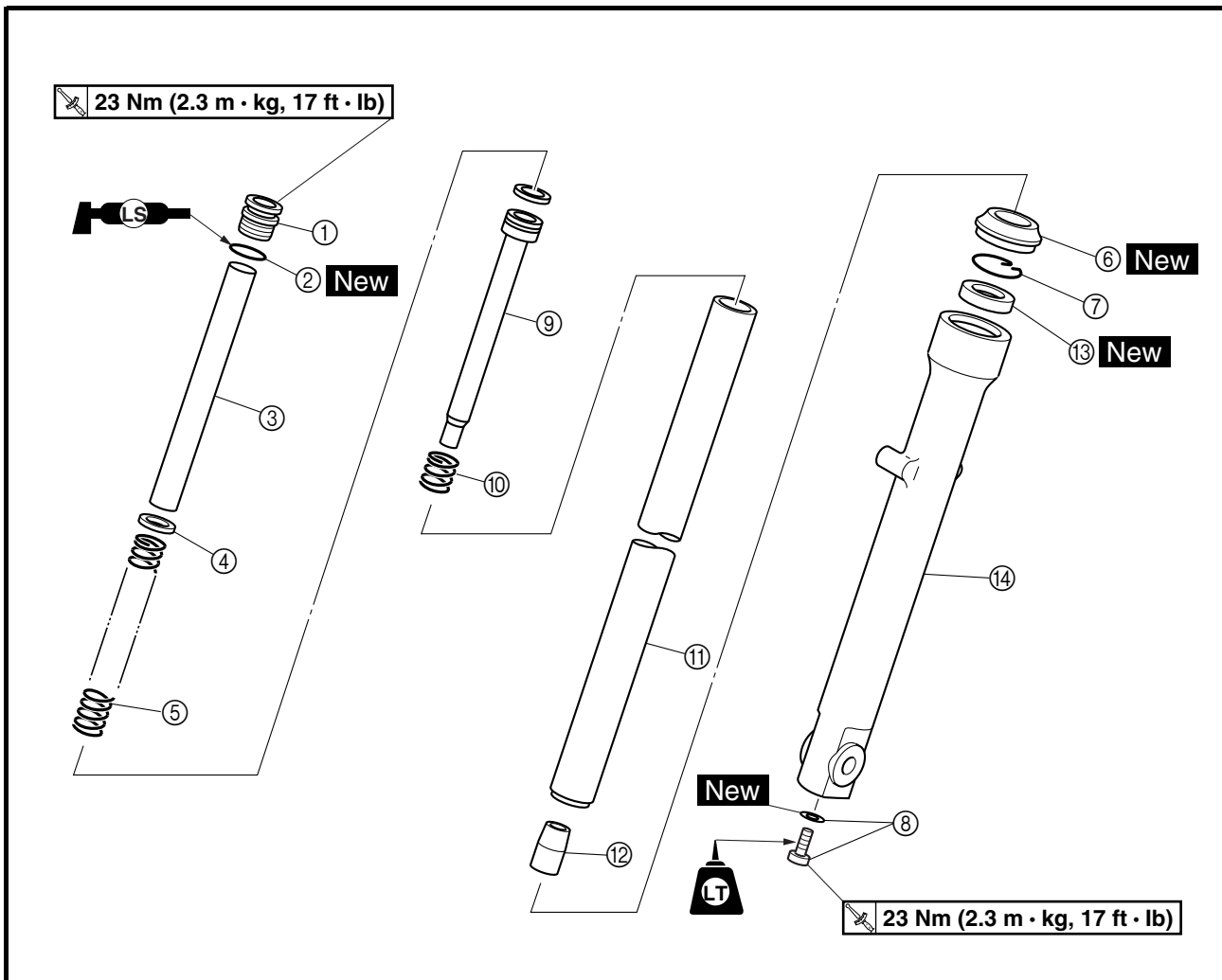


Order	Job/Part	Q'ty	Remarks
	<b>Removing the front brake pads</b>		Remove the parts in the order listed.
1	Brake hose holder	1	Refer to "REPLACING THE FRONT BRAKE PADS".
2	Brake caliper bolt	1	
3	Brake caliper	1	
4	Brake pad	2	
5	Brake pad shim	1	
6	Brake pad spring	2	
			For installation, reverse the removal procedure.



4. Bleed:
  - brake system  
Refer to “BLEEDING THE HYDRAULIC BRAKE SYSTEM” in chapter 3.
5. Check:
  - brake fluid level  
Below the minimum level mark (a) → Add the recommended brake fluid to the proper level.  
Refer to “CHECKING THE BRAKE FLUID LEVEL” in chapter 3.
6. Check:
  - brake lever operation  
Soft or spongy feeling → Bleed the brake system.  
Refer to “BLEEDING THE HYDRAULIC BRAKE SYSTEM” in chapter 3.

EAS00648



Order	Job/Part	Q'ty	Remarks
	<b>Disassembling the front fork legs</b>		Remove the parts in the order listed. The following procedure applies to both of the front fork legs.
①	Cap bolt	1	Refer to "DISASSEMBLING THE FRONT FORK LEGS" and "ASSEMBLING THE FRONT FORK LEGS".
②	O-ring	1	
③	Spacer	1	
④	Spring seat	1	
⑤	Fork spring	1	
⑥	Dust seal	1	
⑦	Oil seal clip	1	
⑧	Damper rod bolt/copper washer	1/1	

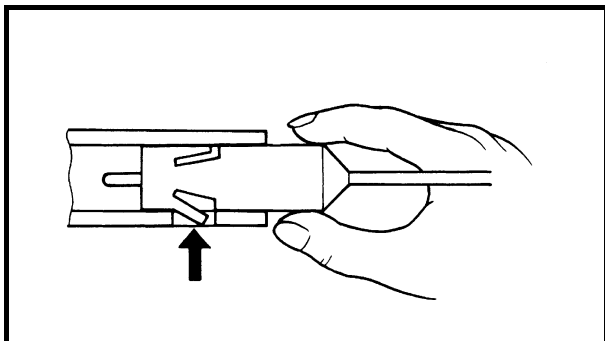
EAS00666

## REMOVING THE HANDLEBAR

1. Stand the vehicle on a level surface.

### **⚠ WARNING**

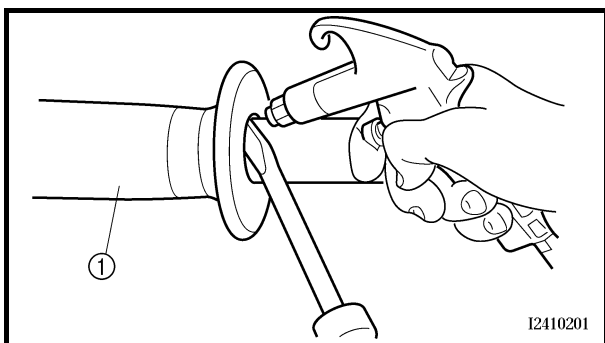
**Securely support the vehicle so that there is no danger of it falling over.**



2. Remove:
  - front brake light switch
  - clutch switch

### **NOTE:**

- Push the fastener to remove the front brake light switch from the brake master cylinder.
- Push the fastener to remove the clutch switch from the clutch lever holder.



3. Remove:
  - handlebar grip ①

### **NOTE:**

Blow compressed air between the handlebar and the handlebar grip, and gradually push the grip off the handlebar.

EAS00668

## CHECKING THE HANDLEBAR

1. Check:
  - handlebar  
Bends/cracks/damage → Replace.

### **⚠ WARNING**

**Do not attempt to straighten a bent handlebar as this may dangerously weaken it.**

EAS00670

## INSTALLING THE HANDLEBAR

1. Stand the vehicle on a level surface.

### **⚠ WARNING**

**Securely support the vehicle so that there is no danger of it falling over.**

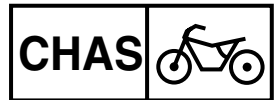
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3. Install:
  - upper bracket
  - steering stem nut

**NOTE:** \_\_\_\_\_

Temporarily tighten the steering stem nut.

---


4. Install:
  - front fork legsRefer to "INSTALLING THE FRONT FORK LEGS".

**NOTE:** \_\_\_\_\_

Temporarily tighten the upper and lower bracket pinch bolts.

---

5. Tighten:
  - steering stem nut

 **110 Nm (11.0 m · kg, 80 ft · lb)**

6. Adjust:
  - headlight beam (vertically)Refer to "ADJUSTING THE HEADLIGHT BEAM" in chapter 3.

5. Remove:
  - pivot shaft nut
  - pivot shaft
  - swingarm
  - footrest bracket (left and right)

EAS00695

## CHECKING THE REAR SHOCK ABSORBER ASSEMBLIES

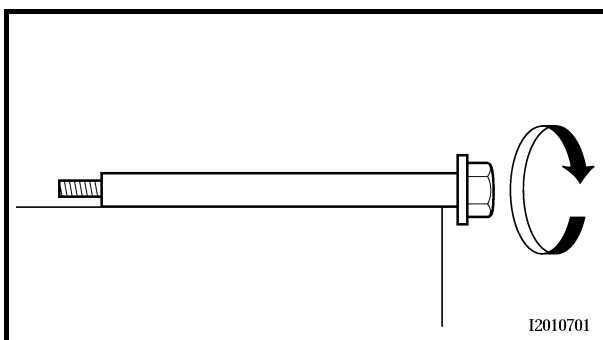
The following procedure applies to both rear shock absorber assemblies.

1. Check:
  - rear shock absorber rod  
Bends/damage → Replace the rear shock absorber assembly.
  - rear shock absorber  
Oil leaks → Replace the rear shock absorber assembly.
  - spring  
Damage/wear → Replace the rear shock absorber assembly.
  - bushings  
Damage/wear → Replace.

EAS00707

## CHECKING THE SWINGARM

1. Check:
  - swingarm  
Bends/cracks/damage → Replace.



2. Check:
  - pivot shaft  
Roll the pivot shaft on a flat surface.  
Bends → Replace.

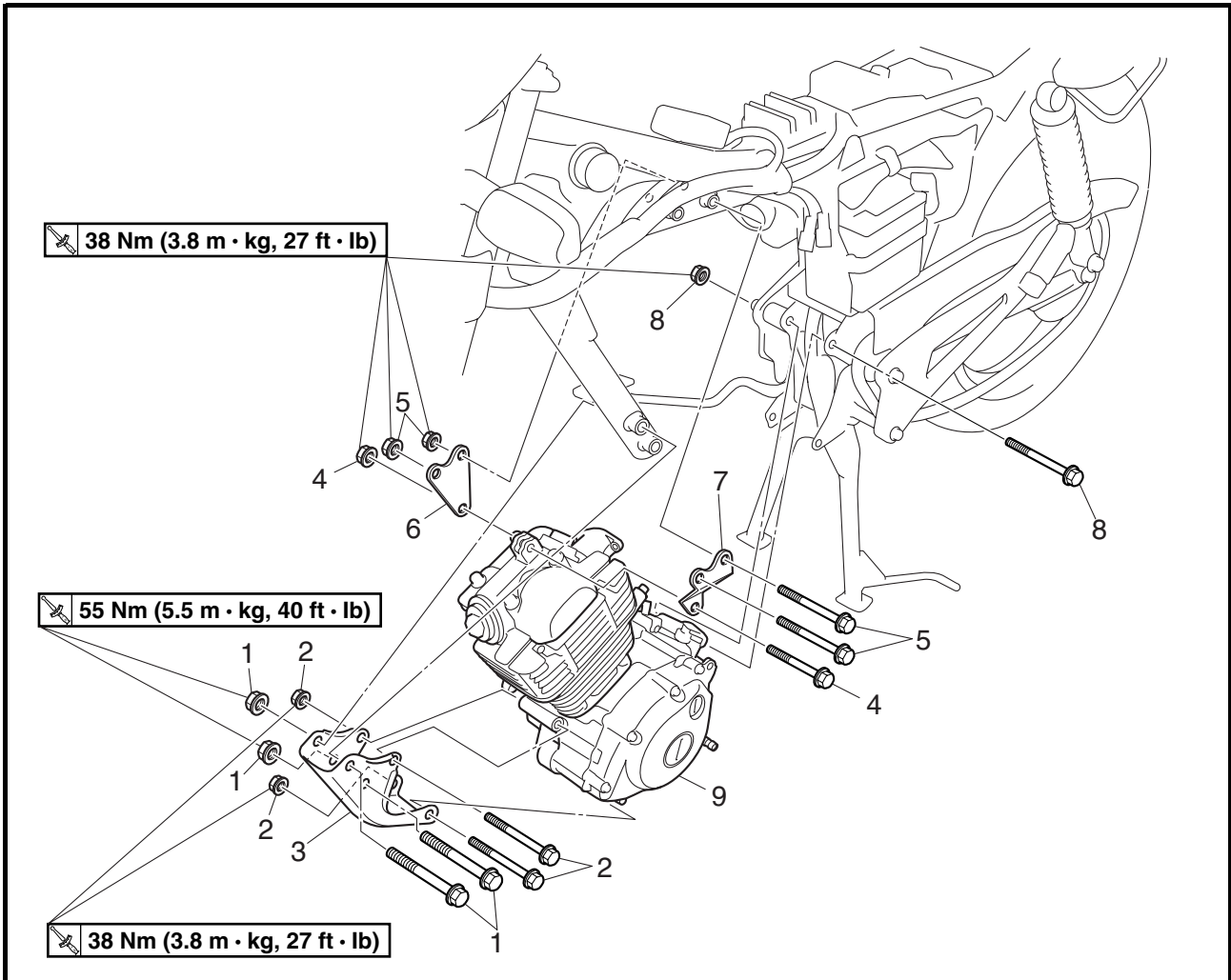
### **WARNING**

**Do not attempt to straighten a bent pivot shaft.**



EAS00191

## ENGINE




Order	Job/Part	Q'ty	Remarks
	<b>Removing the engine</b>		Remove the parts in the order listed. <b>NOTE:</b> _____ Place a suitable stand under the engine.
1	Lower engine bracket bolt/nut	2/2	Refer to "INSTALLING THE ENGINE".
2	Front mounting bolt/nut	2/2	
3	Lower engine bracket	1	
4	Upper mounting bolt/nut	1/1	
5	Upper engine bracket bolt/nut	2/2	
6	Right upper engine bracket	1	
7	Left upper engine bracket	1	
8	Rear mounting bolt/nut	1/1	
9	Engine	1	
			For installation, reverse the removal procedure.



9. Tighten:

- camshaft sprocket bolt

 **20 Nm (2.0 m · kg, 14 ft · lb)**

**CAUTION:**

**Be sure to tighten the camshaft sprocket bolt to the specified torque to avoid the possibility of the bolt coming loose and damaging the engine.**

---

10. Measure:

- valve clearance

Out of specification → Adjust.

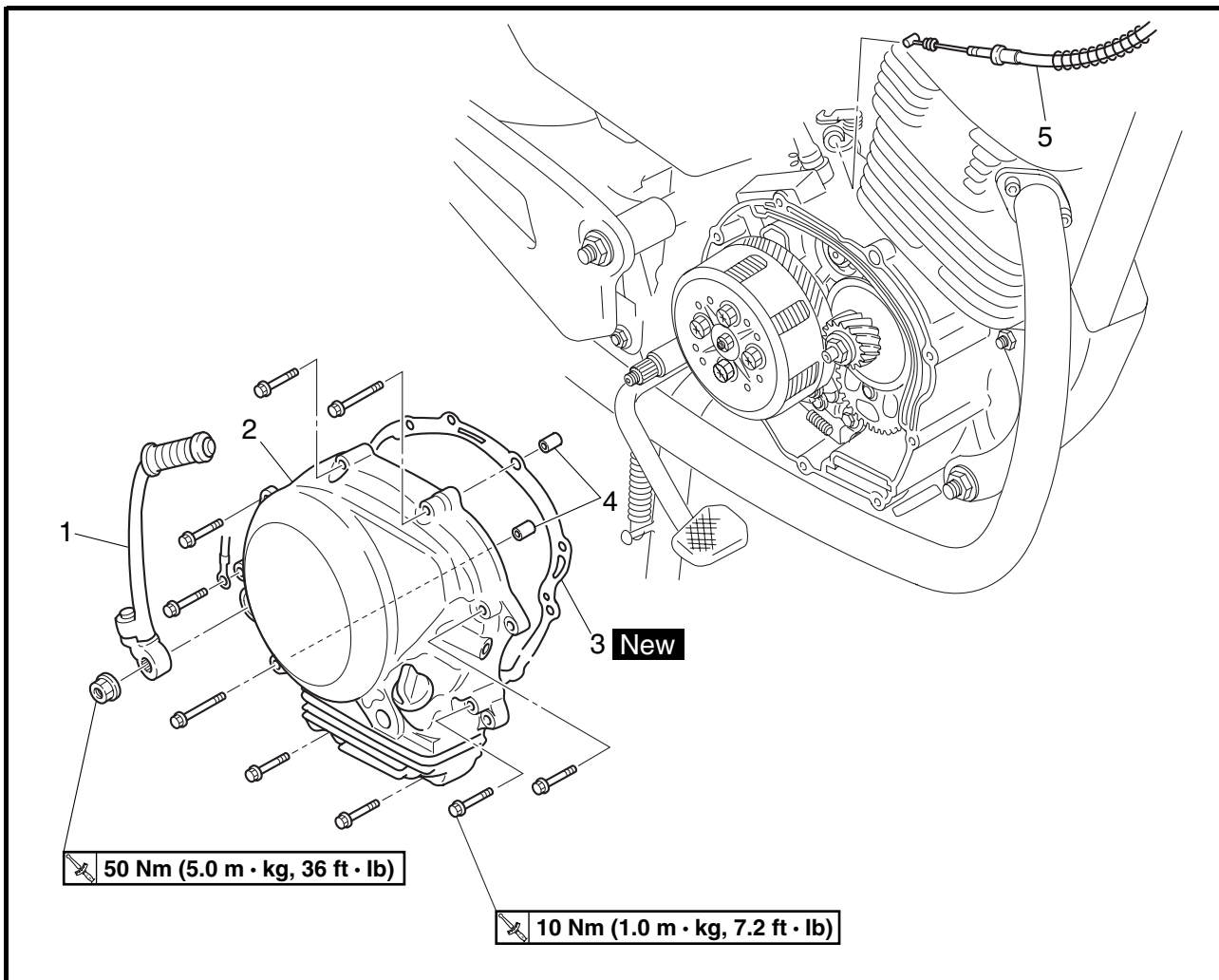
Refer to “ADJUSTING THE VALVE CLEARANCE” in chapter 3.





EAS00273

**CLUTCH**  
**CLUTCH COVER**



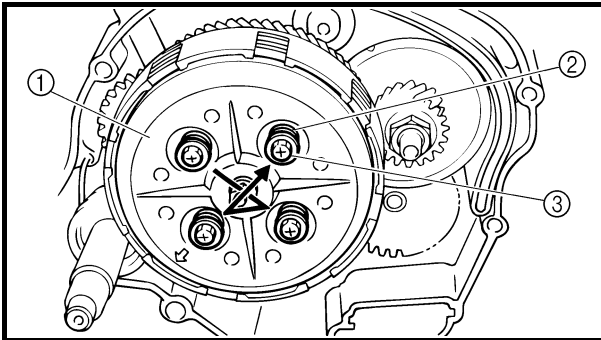
Order	Job/Part	Q'ty	Remarks
	<b>Removing the clutch cover</b>		Remove the parts in the order listed.
	Engine oil		Drain. Refer to "CHANGING THE ENGINE OIL" in chapter 3.
	Left side cover		Refer to "SIDE COVERS, SEAT AND FUEL TANK" in chapter 3.
	Battery/relay case		Refer to "BATTERY AND BATTERY BOX" in chapter 3
	Muffler assembly		Refer to "ENGINE".
	Footrest		
	Starter motor		Refer to "STARTER MOTOR" in chapter 7.
	Clutch cable (handlebar side)		Refer to "HANDLEBAR" in chapter 4.
	Drive sprocket cover		Refer to "DRIVE CHAIN AND DRIVE SPROCKET" in chapter 4.



8. Install:
- friction plates
  - clutch plates

**NOTE:**

First, install a friction plate and then alternate between a clutch plate and a friction plate.

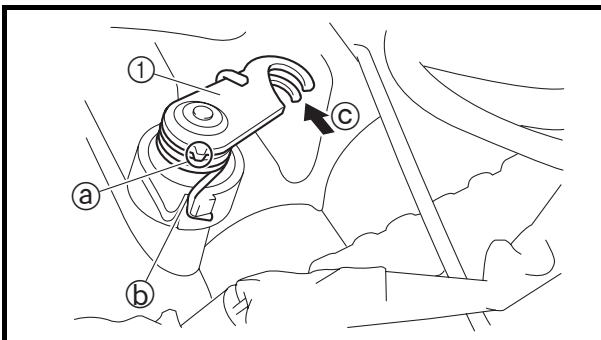


9. Install:
- pressure plate ①
  - clutch springs ②
  - clutch spring bolts ③

6 Nm (0.6 m · kg, 4.3 ft · lb)

**NOTE:**

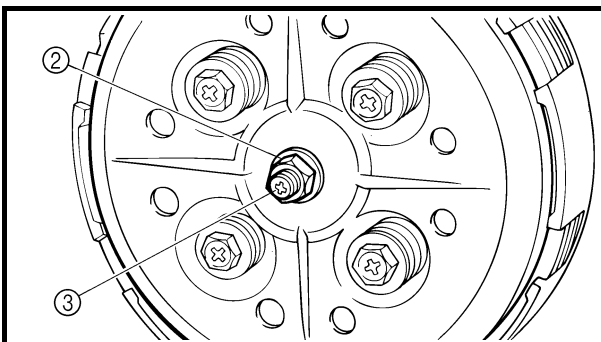
Tighten the clutch spring bolts in stages and in a crisscross pattern.



10. Adjust:
- clutch mechanism free play



- Check that projection (a) on the clutch push lever ① aligns with mark (b) on the crank-case by pushing the clutch push lever manually in direction (c) until it stops.
- If projection (a) is not aligned with mark (b), align them as follows:
  - Loosen the locknut ②.
  - With the clutch push lever fully pushed in direction (c), turn the short clutch push rod ③ in or out until projection (a) aligns with mark (b).
  - Hold the short clutch push rod to prevent it from moving and then tighten the locknut to specification.



**Locknut**  
8 Nm (0.8 m · kg, 5.8 ft · lb)

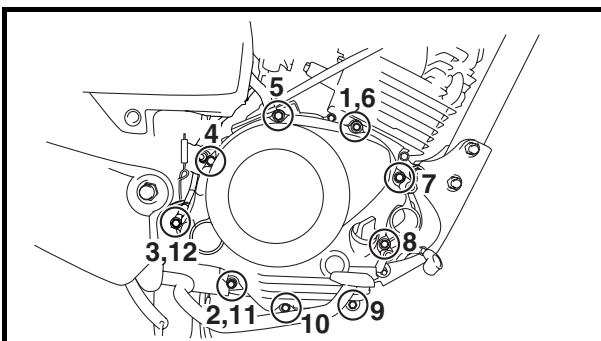


11. Install:
- clutch cover

10 Nm (1.0 m · kg, 7.2 ft · lb)

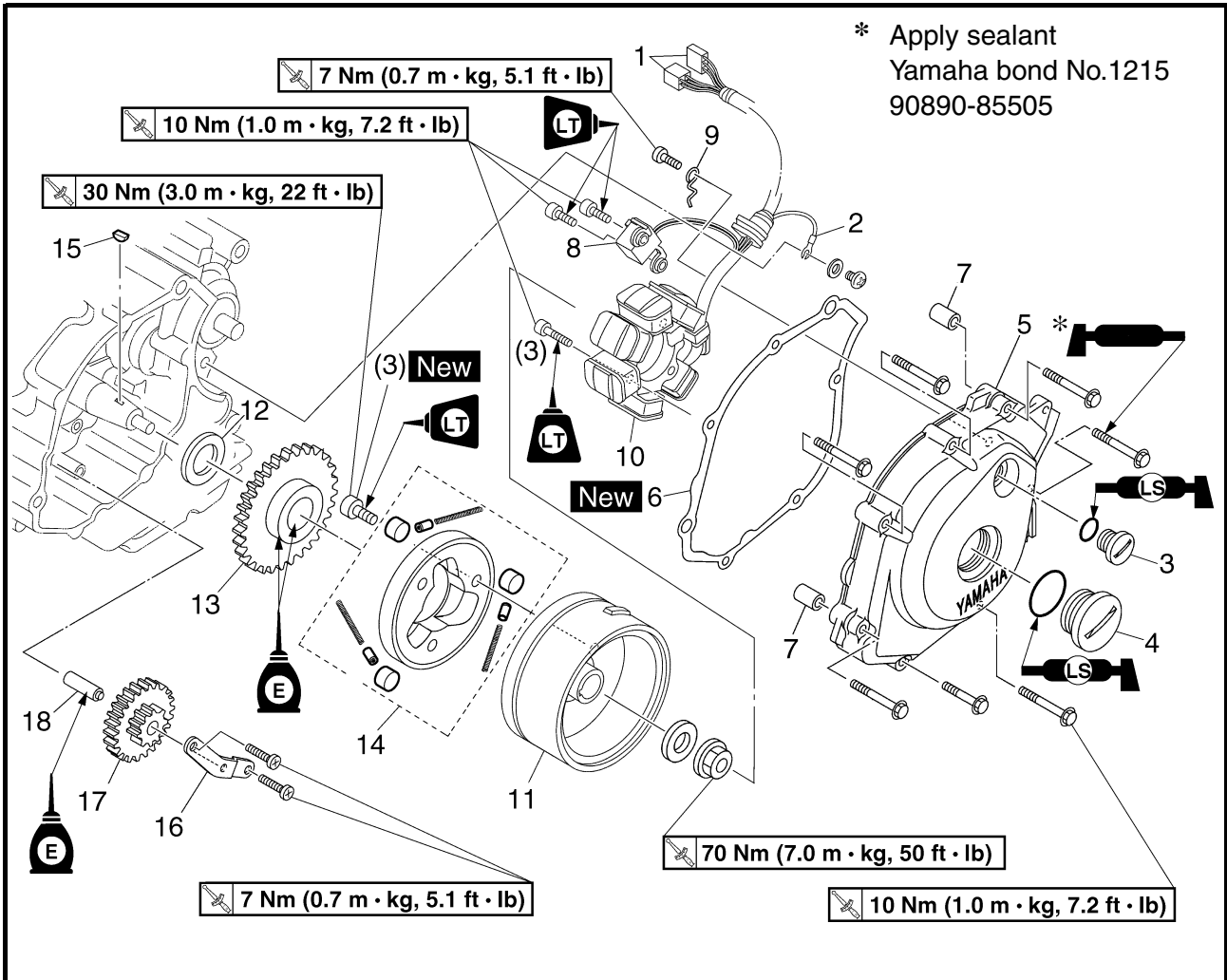
**NOTE:**

Tighten the clutch cover bolts in the proper tightening sequence as shown.

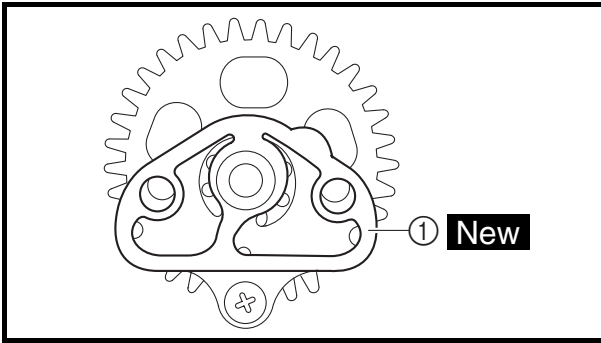


# STARTER CLUTCH AND A.C. MAGNETO ROTOR

ENG




Order	Job/Part	Q'ty	Remarks
16	Starter clutch idle gear holder	1	For installation, reverse the removal procedure.
17	Starter clutch idle gear	1	
18	Starter clutch idle gear shaft	1	



EAS00376

**INSTALLING THE OIL PUMP**

1. Install:

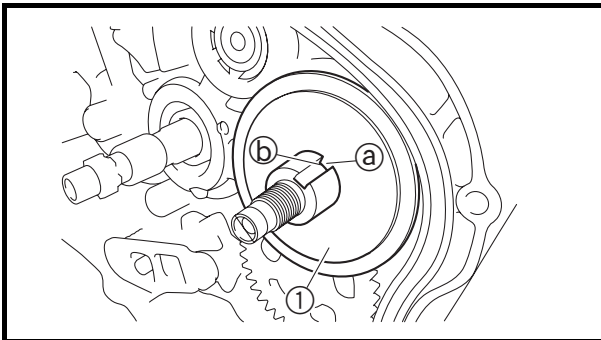
- oil pump gasket ① **New**
- oil pump  **7 Nm (0.7 m · kg, 5.1 ft · lb)**

**CAUTION:** \_\_\_\_\_

After tightening the bolts, make sure the oil pump turns smoothly.

**NOTE:** \_\_\_\_\_

Install the oil pump gasket as shown in the illustration.



EAS00377

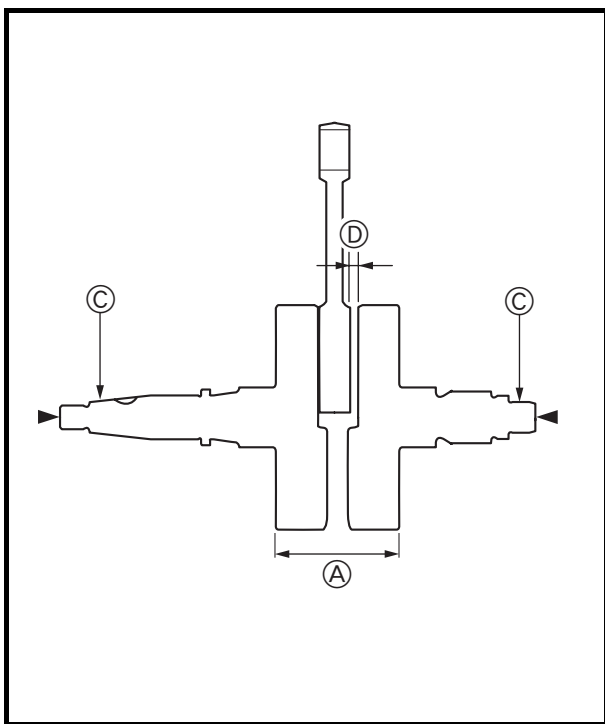
**INSTALLING THE ROTARY FILTER**

1. Install:

- rotary filter ①

**NOTE:** \_\_\_\_\_

Align the projection ① on the rotary filter with the oil hole ② in the crankshaft.



EAS00394

## CHECKING THE CRANKSHAFT

### 1. Measure:

- crankshaft runout (C)  
Out of specification → Replace the crankshaft, bearing or both.

### NOTE:

Turn the crankshaft slowly.



**Maximum crankshaft runout**  
**0.030 mm (0.0012 in)**

### 2. Measure:

- big end side clearance (D)  
Out of specification → Replace the crankshaft.



**Big end side clearance**  
**0.150 ~ 0.450 mm**  
**(0.0059 ~ 0.0177 in)**

### 3. Measure:

- crankshaft width (A)  
Out of specification → Replace the crankshaft.



**Crankshaft width**  
**46.95 ~ 47.00 mm**  
**(1.848 ~ 1.850 in)**

### 4. Check:

- crankshaft sprocket  
Damage/wear → Replace the crankshaft.
- bearing  
Cracks/damage/wear → Replace the crankshaft.

### 5. Check:

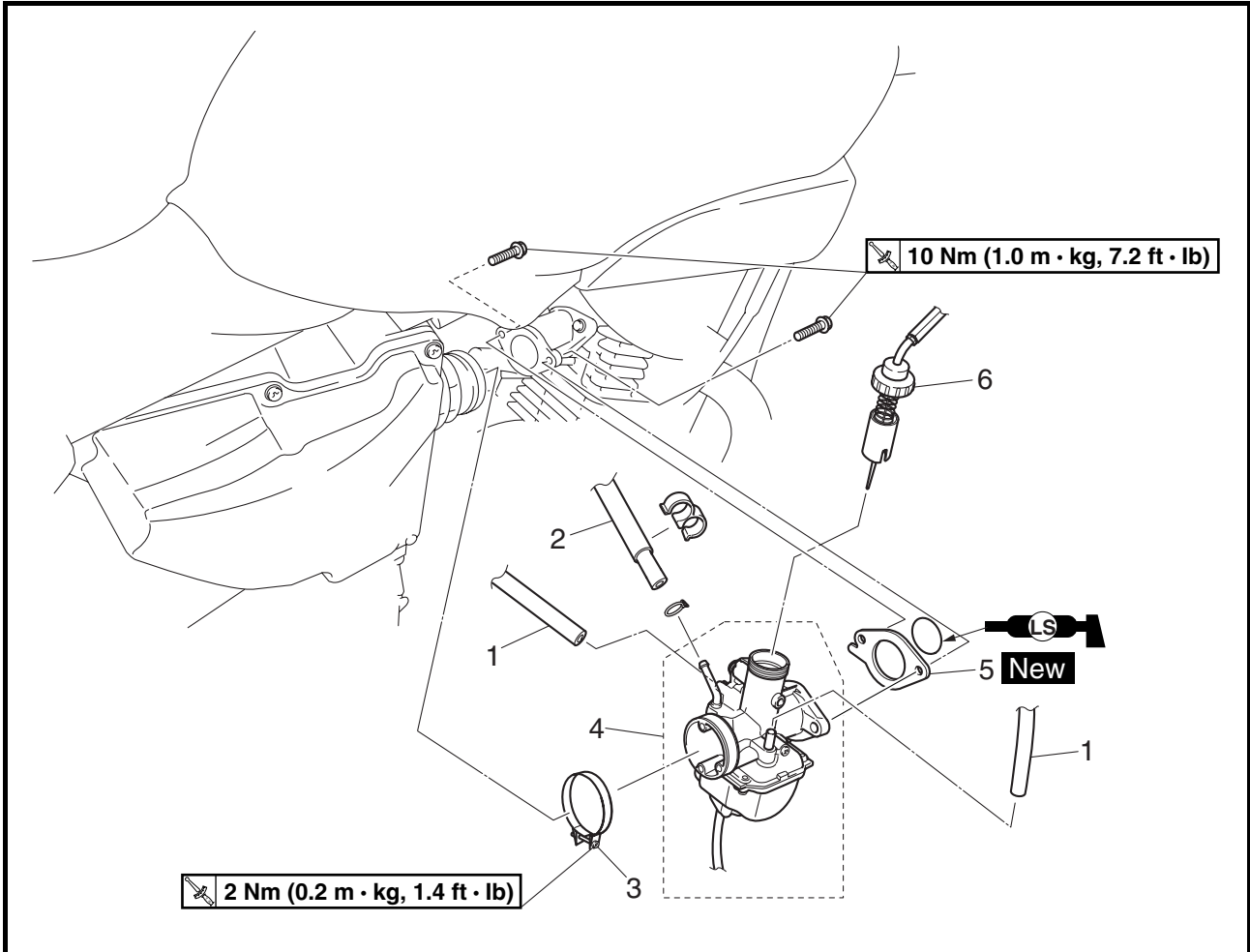
- crankshaft journal  
Scratches/wear → Replace the crankshaft.
- crankshaft journal oil passage  
Obstruction → Blow out with compressed air.



EAS00480

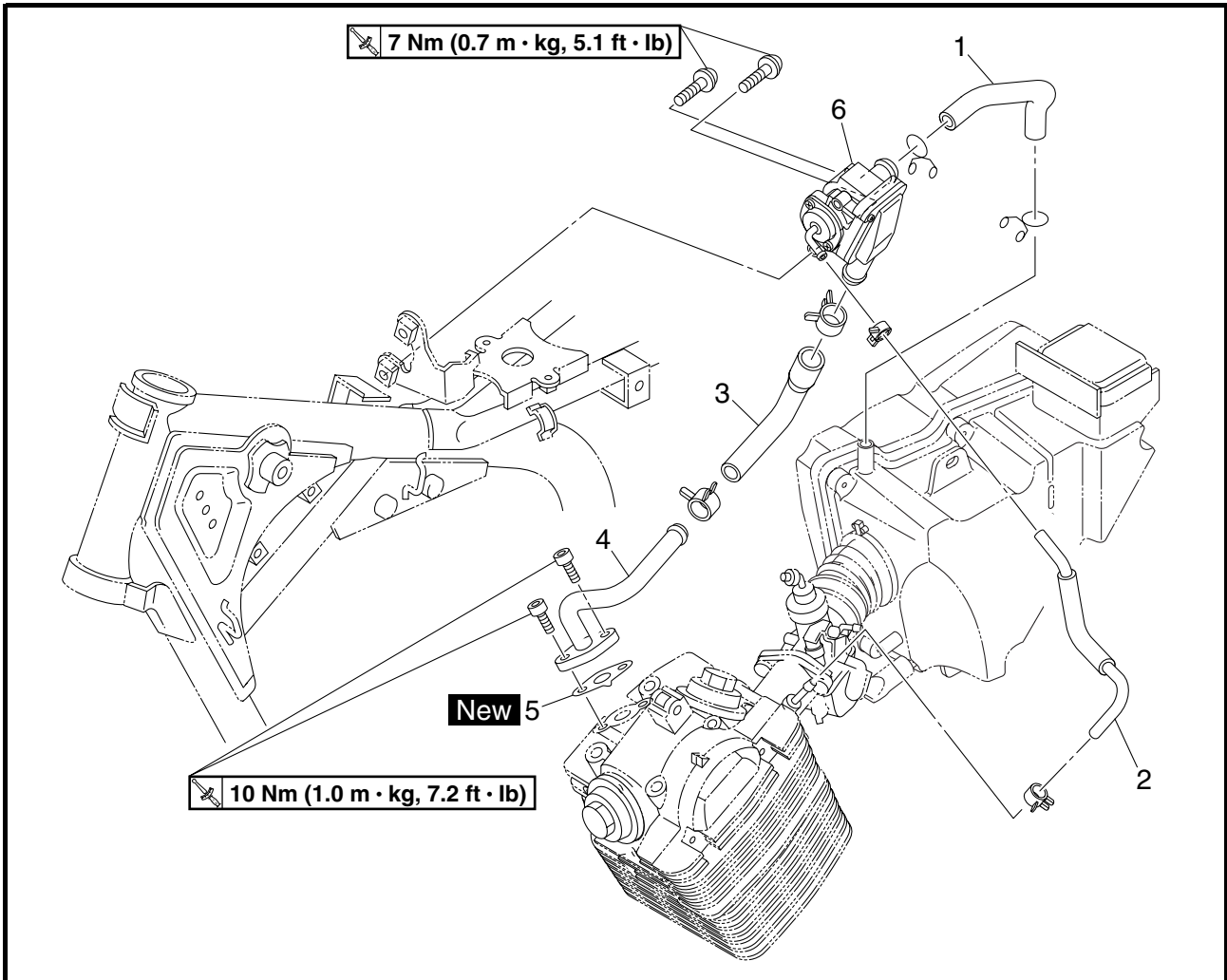
CARBURETOR

CARBURETOR

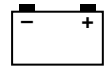


Order	Job/Part	Q'ty	Remarks
	<b>Removing the carburetor</b>		Remove the parts in the order listed. Refer to "SIDE COVERS, SEAT AND FUEL TANK" in chapter 3.
1	Air vent hose	2	Disconnect.
2	Fuel hose	1	
3	Carburetor joint clamp screw	1	Loosen.
4	Carburetor assembly	1	
5	Carburetor joint	1	
6	Carburetor cap assembly	1	
			For installation, reverse the removal procedure.

**AIR CUT-OFF VALVE ASSEMBLY**



Order	Job/Part	Q'ty	Remarks
	<b>Removing the air cut-off valve assembly</b>		Remove the parts in the order listed.
	Side cover/fuel tank		Refer to "SIDE COVERS, SEAT AND FUEL TANK" in chapter 3.
1	Air induction system hose (air filter to air cut-off valve assembly)	1	
2	Air induction system vacuum hose	1	
3	Air induction system hose (air cut-off valve to cylinder head)	1	
4	Air induction system pipe	1	
5	Air induction system pipe gasket	1	
6	Air cut-off valve assembly	1	
			For installation, reverse the removal procedure.



EAS00736

### TROUBLESHOOTING

**The ignition system fails to operate (no spark or intermittent spark).**

Check:

1. fuse
2. battery
3. spark plug
4. ignition spark gap
5. spark plug cap resistance
6. ignition coil resistance
7. pickup coil resistance
8. main switch
9. wiring connections (of the entire ignition system)

**NOTE:**

- Before troubleshooting, remove the following part(s):
  1. left side cover
  2. headlight assembly
  3. air duct (left and right)
  4. fuel tank
- Troubleshoot with the following special tool(s).

	<b>Ignition checker</b> 90890-06754, YM-34487 <b>Pocket tester</b> 90890-03112, YU-03112-C
--	---

EAS00738

1. Fuse <ul style="list-style-type: none"> <li>• Check the fuse for continuity. Refer to “CHECKING THE FUSE” in chapter 3.</li> <li>• Is the fuse OK?</li> </ul>
---



Replace the fuse.

EAS00739

2. Battery <ul style="list-style-type: none"> <li>• Check the condition of the battery. Refer to “CHECKING AND CHARGING THE BATTERY” in chapter 3.</li> </ul>
--

	<b>Minimum open-circuit voltage</b> 12.8 V or more at 20 °C (68 °F)
--	--

<ul style="list-style-type: none"> <li>• Is the battery OK?</li> </ul>
--



- Refill battery fluid.
- Clean the battery terminals.
- Recharge or replace the battery.

EAS00740

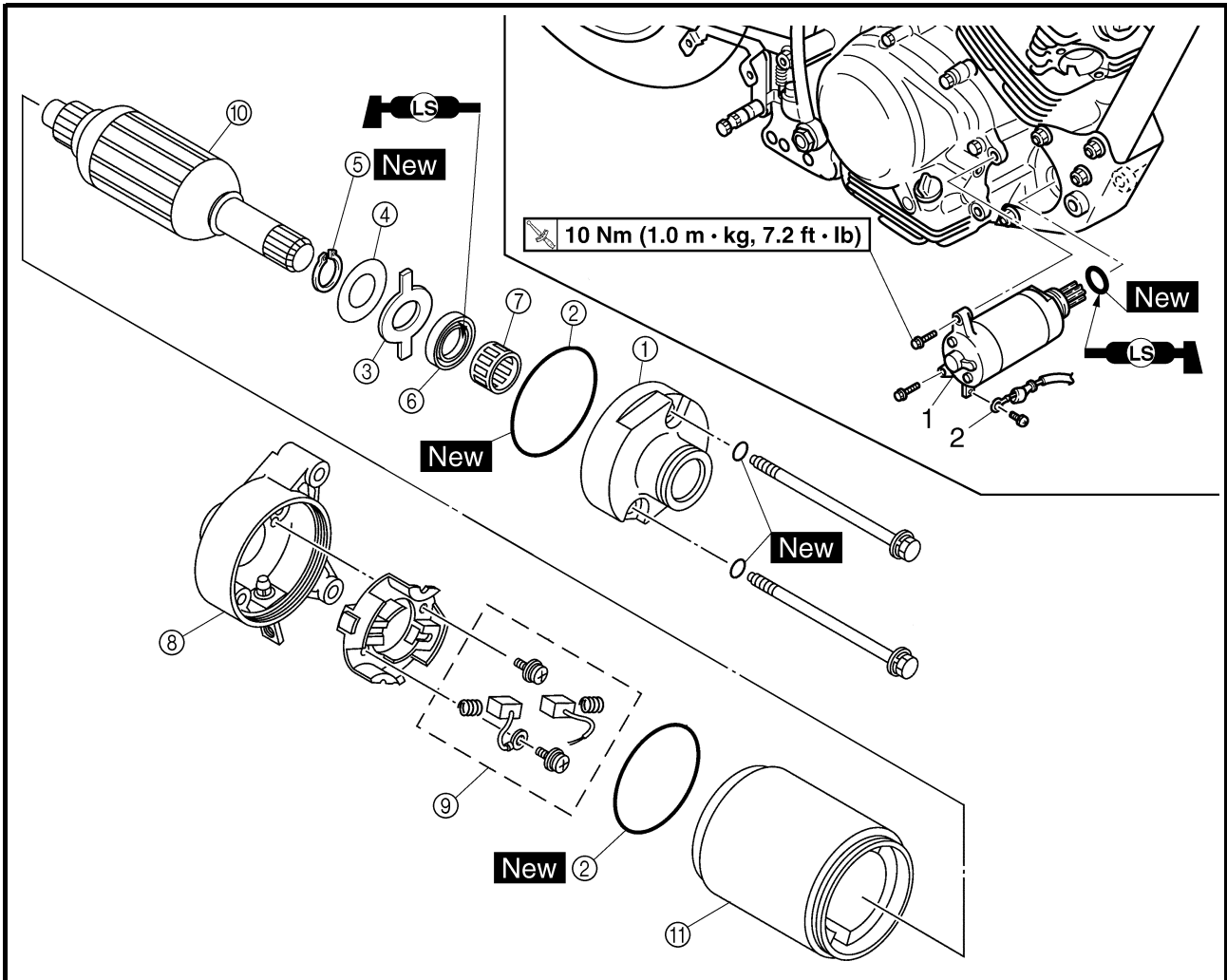
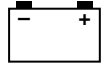
3. Spark plug <ul style="list-style-type: none"> <li>• Check the condition of the spark plug.</li> <li>• Check the spark plug type.</li> <li>• Measure the spark plug gap. Refer to “CHECKING THE SPARK PLUG” in chapter 3.</li> </ul>
---

	<b>Standard spark plug</b> CR6HSA (NGK) <b>Spark plug gap</b> 0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
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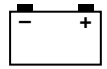
<ul style="list-style-type: none"> <li>• Is the spark plug in good condition, is it of the correct type, and is its gap within specification?</li> </ul>
--



Re-gap or replace the spark plug.



Order	Job/Part	Q'ty	Remarks
	<b>Disassembling the starter motor</b>		Remove the parts in the order listed.
①	Front bracket	1	Refer to "ASSEMBLING THE STARTER MOTOR".
②	O-ring	2	
③	Lock washer	1	
④	Shim		
⑤	Circlip	1	
⑥	Oil seal	1	
⑦	Bearing	1	
⑧	Rear bracket	1	
⑨	Brush set	1	
⑩	Armature assembly	1	
⑪	Starter motor yoke	1	
			For assembly, reverse the disassembly procedure.



EAS00787

## 7. Wiring

- Check the entire lighting system's wiring. Refer to "CIRCUIT DIAGRAM".
- Is the lighting system's wiring properly connected and without defects?



YES



NO

Check the condition of each of the lighting system's circuits. Refer to "CHECKING THE LIGHTING SYSTEM".

Properly connect or repair the lighting system's wiring.

EAS00788

## CHECKING THE LIGHTING SYSTEM

1. The headlight and the high beam indicator light fail to come on.

### 1. Headlight bulb and socket

- Check the headlight bulb and socket for continuity. Refer to "CHECKING THE BULBS AND BULB SOCKETS".
- Are the headlight bulb and socket OK?



YES



NO

Replace the headlight bulb, socket or both.

### 2. High beam indicator light bulb and socket

- Check the high beam indicator light bulb and socket for continuity. Refer to "CHECKING THE BULBS AND BULB SOCKETS".
- Is the high beam indicator light bulb and socket OK?

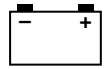


YES



NO

Replace the high beam indicator light bulb, socket or both.



### 6. Voltage

- Connect the pocket tester (DC 20 V) to the turn signal light connector or turn signal indicator light connector (wire harness side) as shown.

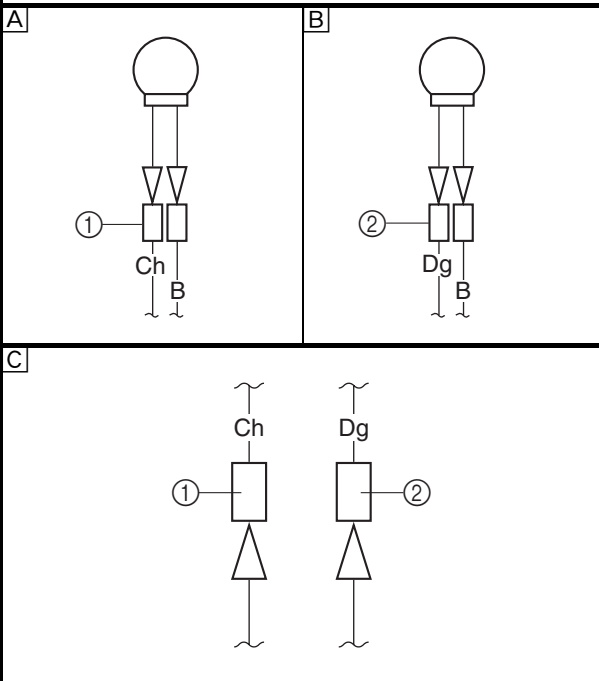
- A Left turn signal light
- B Right turn signal light
- C Turn signal indicator light

#### Left turn signal light

**Positive tester probe** → chocolate ①  
**Negative tester probe** → ground

#### Right turn signal light

**Positive tester probe** → dark green ②  
**Negative tester probe** → ground



- Set the main switch to "ON".
- Set the turn signal switch to "←" or "→".
- Measure the voltage (DC 12 V) of the chocolate ① or dark green ② at the turn signal light connector or turn the signal indicator light connector (wire harness side).
- Is the voltage within specification?



This circuit is OK.

The wiring circuit from the turn signal switch to the turn signal light connector or turn the signal indicator light connector is faulty and must be repaired.

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## TROUBLESHOOTING

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**NOTE:**

The following guide for troubleshooting does not cover all the possible causes of trouble. It should be helpful, however, as a guide to basic troubleshooting. Refer to the relative procedure in this manual for checks, adjustments, and replacement of parts.

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### STARTING FAILURES

#### ENGINE

##### Cylinder and cylinder head

- Loose spark plug
- Loose cylinder head or cylinder
- Damaged cylinder head gasket
- Damaged cylinder gasket
- Worn or damaged cylinder
- Incorrect valve clearance
- Improperly sealed valve
- Incorrect valve-to-valve-seat contact
- Incorrect valve timing
- Faulty valve spring
- Seized valve

##### Piston and piston rings

- Improperly installed piston ring
- Damaged, worn or fatigued piston ring
- Seized piston ring
- Seized or damaged piston

##### Air filter

- Improperly installed air filter
- Clogged air filter element

##### Crankcase and crankshaft

- Improperly assembled crankcase
- Seized crankshaft

#### FUEL SYSTEM

##### Fuel tank

- Empty fuel tank
- Clogged fuel filter
- Deteriorated or contaminated fuel

##### Fuel cock

- Clogged or damaged fuel hose

##### Carburetor

- Deteriorated or contaminated fuel
- Clogged pilot jet
- Clogged pilot air passage
- Sucked-in air
- Damaged float
- Worn needle valve
- Improperly installed needle valve seat
- Incorrect fuel level
- Improperly installed pilot jet
- Clogged starter jet
- Faulty starter plunger

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