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A Few Words About Safety

Service Information

The service and repair information contained in this manual is intended for use by qualified, professional technicians. Attempting service or repairs without the proper training, tools, and equipment could cause injury to you or others. It could also damage the vehicle or create an unsafe condition.

This manual describes the proper methods and procedures for performing service, maintenance and repairs. Some procedures require the use of specially designed tools and dedicated equipment. Any person who intends to use a replacement part, service procedure or a tool that is not recommended by Honda, must determine the risks to their personal safety and the safe operation of the vehicle.

If you need to replace a part, use genuine Honda parts with the correct part number or an equivalent part. We strongly recommend that you do not use replacement parts of inferior quality.

For Your Customer's Safety

Proper service and maintenance are essential to the customer's safety and the reliability of the vehicle. Any error or oversight while servicing a vehicle can result in faulty operation, damage to the vehicle, or injury to others.

WARNING

Improper service or repairs can create an unsafe condition that can cause your customer to be seriously hurt or killed.

Follow the procedures and precautions in this manual and other service materials carefully.

For Your Safety

Because this manual is intended for the professional service technician, we do not provide warnings about many basic shop safety practices (e.g., Hot parts—wear gloves). If you have not received shop safety training or do not feel confident about your knowledge of safe servicing practice, we recommended that you do not attempt to perform the procedures described in this manual.

Some of the most important general service safety precautions are given below. However, we cannot warn you of every conceivable hazard that can arise in performing service and repair procedures. Only you can decide whether or not you should perform a given task.

WARNING

Failure to properly follow instructions and precautions can cause you to be seriously hurt or killed.

Follow the procedures and precautions in this manual carefully.

Important Safety Precautions

Make sure you have a clear understanding of all basic shop safety practices and that you are wearing appropriate clothing and using safety equipment. When performing any service task, be especially careful of the following:

- Read all of the instructions before you begin, and make sure you have the tools, the replacement or repair parts, and the skills required to perform the tasks safely and completely.
- Protect your eyes by using proper safety glasses, goggles or face shields any time you hammer, drill, grind, pry or work around pressurized air or liquids, and springs or other stored-energy components. If there is any doubt, put on eye protection.
- Use other protective wear when necessary, for example gloves or safety shoes. Handling hot or sharp parts can cause severe burns or cuts. Before you grab something that looks like it can hurt you, stop and put on gloves.
- Protect yourself and others whenever you have the vehicle up in the air. Any time you lift the vehicle, either with a hoist or a jack, make sure that it is always securely supported. Use jack stands.

Make sure the engine is off before you begin any servicing procedures, unless the instruction tells you to do otherwise. This will help eliminate several potential hazards:

- Carbon monoxide poisoning from engine exhaust. Be sure there is adequate ventilation whenever you run the engine
- Burns from hot parts or coolant. Let the engine and exhaust system cool before working in those areas.
- Injury from moving parts. If the instruction tells you to run the engine, be sure your hands, fingers and clothing are out of the way.

Gasoline vapors and hydrogen gases from batteries are explosive. To reduce the possibility of a fire or explosion, be careful when working around gasoline or batteries.

- Use only a nonflammable solvent, not gasoline, to clean parts.
- Never drain or store gasoline in an open container.
- Keep all cigarettes, sparks and flames away from the battery and all fuel-related parts.

How To Use This Manual

This addendum contains information for ACB110-A.

Refer to ANC110 BDV/BSV/BCV-7 SHOP MANUAL (No.62KVBGM8) or ANC110BDT/BST/BCT-6 SHOP MANUAL (No.62KVBAM7) for service procedures and data not included in this addendum.

Your safety, and the safety of others, is very important. To help you make informed decisions we have provided safety messages and other information throughout this manual. Of course, it is not practical or possible to warn you about all the hazards associated with servicing this vehicle.

You must use your own good judgement.

You will find important safety information in a variety of forms including:

- Safety Labels – on the vehicle
- Safety Messages – preceded by a safety alert symbol  and one of three signal words, DANGER, WARNING, or CAUTION. These signal words mean:

⚠ DANGER You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

⚠ WARNING You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

⚠ CAUTION You CAN be HURT if you don't follow instructions.

- Instructions – how to service this vehicle correctly and safely.

As you read this manual, you will find information that is preceded by a **NOTICE** symbol. The purpose of this message is to help prevent damage to your vehicle, other property, or the environment.

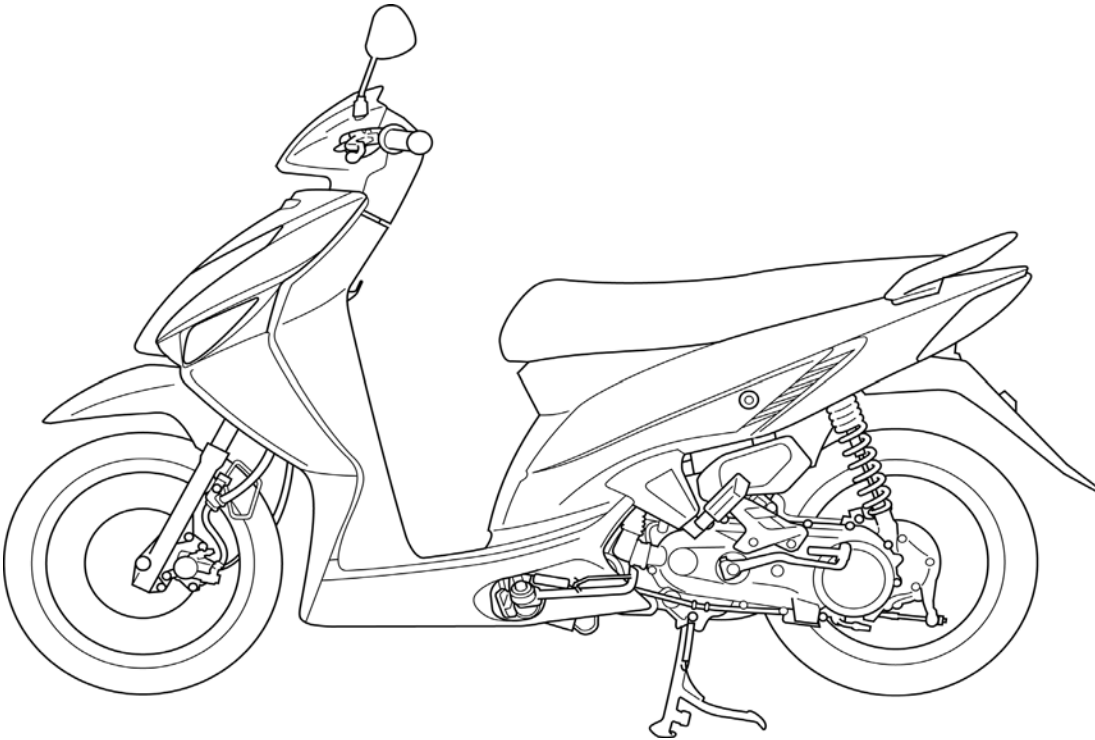
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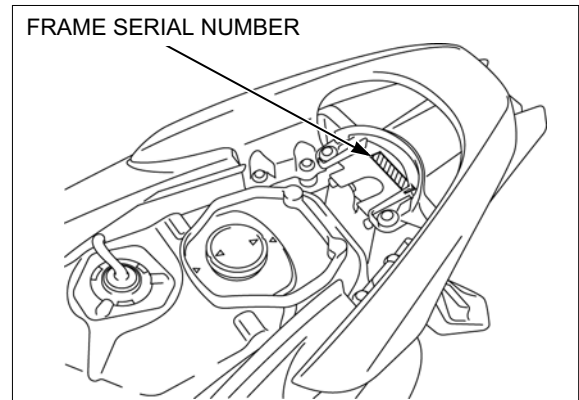
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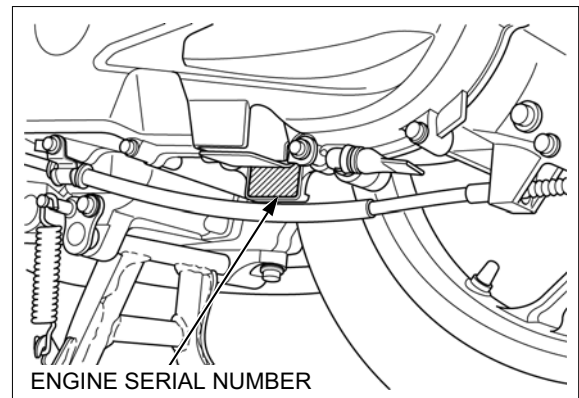
MODEL IDENTIFICATION



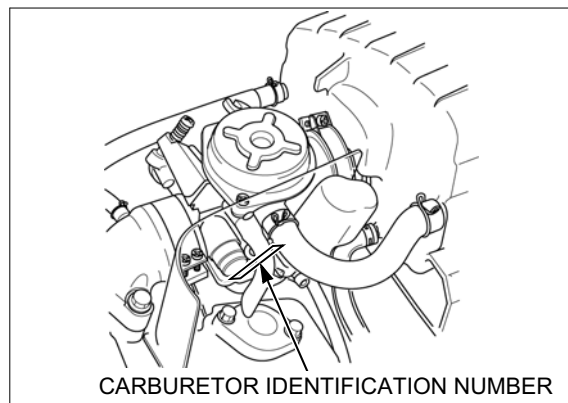
The frame serial number is stamped on the seat stay as shown.



The engine serial number is stamped on the lower left side of the crankcase.



The carburetor identification number is stamped on the left side of the carburetor body.



GENERAL SPECIFICATIONS

ITEM		SPECIFICATIONS
DIMENSIONS	Overall length	1,897 mm (74.7 in)
	Overall width	682 mm (26.8 in)
	Overall height	1,083 mm (42.6 in)
	Wheelbase	1,273 mm (50.1 in)
	Seat height	758 mm (29.8 in)
	Footpeg height	257 mm (10.1 in)
	Ground clearance	133 mm (5.2 in)
	Curb weight	100 kg (220.5 lbs)
FRAME	Frame type	Under bone type
	Front suspension	Telescopic fork
	Front axle travel	81 mm (3.2 in)
	Rear suspension	Unit swing
	Rear axle travel	75.0 mm (2.95 in)
	Front tire size	80/90 - 14M/C40P
	Rear tire size	90/90 - 14M/C46P
	Tire brand	NR73T Z (IRC)
	Front	NR73T (IRC)
	Rear	NR73T (IRC)
	Front brake	Hydraulic disc brake
	Rear brake	Mechanical leading trailing
	Caster angle	26°40'
ENGINE	Trail length	80.0 mm (3.15 in)
	Fuel tank capacity	3.6 liter (0.95 US gal, 0.79 Imp gal)
	Bore and stroke	50.0 x 55.0 mm (1.97 x 2.17 in)
	Displacement	108.0 cm ³ (6.59 cu-in)
	Compression ratio	11.0 : 1
	Valve train	2 valve, single chain driven SOHC
	Intake valve	opens at 1 mm (0.04 in) lift
		closes at 1 mm (0.04 in) lift
	Exhaust valve	opens at 1 mm (0.04 in) lift
		closes at 1 mm (0.04 in) lift
	Lubrication system	Forced pressure and wet sump
CARBURETOR	Oil pump type	Trochoid
	Cooling system	Liquid cooled
DRIVE TRAIN	Air filtration	Paper filter
	Engine dry weight	27.3 kg (60.2 lbs)
ELECTRICAL	Carburetor type	CV (constant velocity)
	Throttle bore	22 mm (0.9 in) or equivalent
	Clutch system	Dry, automatic centrifugal clutch
ELECTRICAL	Drive belt ratio	2.53:1 - 0.85: 1
	Final reduction	10.625 (51/18 x 45/12)
	Ignition system	DC-CDI
ELECTRICAL	Starting system	Kickstarter with electric starter motor
	Charging system	Single phase output alternator
	Regulator/rectifier	SCR shorted/single phase, half wave rectification
ELECTRICAL	Lighting system	Alternator

LUBRICATION SYSTEM SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Engine oil capacity	After draining	0.7 liter (0.7 US qt, 0.6 Imp qt)	–
	After disassembly	0.8 liter (0.8 US qt, 0.7 Imp qt)	–
Recommended engine oil		API classification: SE, SF or SG (except oils labeled as energy conserving on the circular API service label) Viscosity: SAE 10W-30 JASO T 903 standard: MB	–
Oil pump rotor	Tip clearance	0.15 (0.006)	0.20 (0.008)
	Body clearance	0.15 – 0.21 (0.006 – 0.008)	0.35 (0.014)
	Side clearance	0.05 – 0.10 (0.002 – 0.004)	0.12 (0.005)

FUEL SYSTEM SPECIFICATIONS

ITEM	SPECIFICATIONS
Carburetor identification number	AVK2CP
Main jet	#105
Slow jet	#35
SE thermal valve resistance	3.2 – 5.6 Ω (20°C/68°F)
Float level	13.0 mm (0.51 in)
Pilot screw opening	See page 1-15
Idle speed	1,700 $\pm$ 100 min ⁻¹ (rpm)
PAIR control valve specified vacuum	60 kPa (450 mmHg)
Throttle grip free play	2 – 6 mm (0.1 – 0.2 in)

COOLING SYSTEM SPECIFICATIONS

ITEM	SPECIFICATIONS
Coolant capacity	Radiator and engine
	0.49 liter (0.52 US qt, 0.43 Imp qt)
	Reserve tank
	0.20 liter (0.21 US qt, 0.18 Imp qt)
Radiator cap relief pressure	108 – 137 kPa (1.1 – 1.4 kgf/cm ² , 16 – 20 psi)
Thermostat	Begin to open
	74 – 78 °C (165 – 172 °F)
	Fully open
	100 °C (212 °F)
	Valve lift
	8 mm (0.3 in) minimum
Recommended coolant	Honda PRE-MIX COOLANT

CYLINDER HEAD/VALVES SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder compression			912 kPa (9.3 kgf/cm ² , 132.3 psi) at 550 min ⁻¹ (rpm)	–
Cylinder head warpage			–	0.05 (0.002)
Rocker arm	Rocker arm I.D.	IN/EX	10.000 – 10.015 (0.3937 – 0.3943)	10.04 (0.395)
	Rocker arm shaft O.D.	IN/EX	9.972 – 9.987 (0.3926 – 0.3932)	9.91 (0.390)
	Arm to shaft clearance	IN/EX	0.013 – 0.043 (0.0005 – 0.0017)	0.08 (0.003)
Camshaft	Cam lobe height	IN	32.542 – 32.782 (1.2812 – 1.2906)	32.52 (1.280)
		EX	32.263 – 32.503 (1.2702 – 1.2796)	32.24 (1.269)
Valve, valve guide	Valve clearance	IN	0.16 $\pm$ 0.02 (0.006 $\pm$ 0.001)	–
		EX	0.25 $\pm$ 0.02 (0.010 $\pm$ 0.001)	–
	Valve stem O.D.	IN	4.975 – 4.990 (0.1959 – 0.1965)	4.90 (0.193)
		EX	4.955 – 4.970 (0.1951 – 0.1957)	4.90 (0.193)
	Valve guide I.D.	IN/EX	5.000 – 5.012 (0.1969 – 0.1973)	5.03 (0.198)
	Stem-to-guide clearance	IN	0.010 – 0.037 (0.0004 – 0.0015)	0.08 (0.003)
		EX	0.030 – 0.057 (0.0012 – 0.0022)	0.10 (0.004)
	Valve guide projection above cylinder head	IN/EX	9.1 – 9.3 (0.36 – 0.37)	–
Valve spring free length	Valve seat width		IN/EX	0.7 – 0.9 (0.03 – 0.04)
	Inner	IN/EX	31.53 (1.241)	30.66 (1.207)
		Outer	IN/EX	38.33 (1.509)

CYLINDER/PISTON SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder	I.D.		50.000 – 50.010 (1.9685 – 1.9689)	50.10 (1.972)
	Out-of-round		–	0.05 (0.002)
	Taper		–	0.05 (0.002)
	Warpage		–	0.05 (0.002)
Piston, piston rings, piston pin	Piston O.D.		49.975 – 49.995 (1.9675 – 1.9683)	49.95 (1.967)
	Piston O.D. measurement point		10.0 (0.39) from bottom of skirt	–
	Piston pin bore I.D.		13.002 – 13.008 (0.5119 – 0.5121)	13.04 (0.513)
	Piston pin O.D.		12.994 – 13.000 (0.5116 – 0.5118)	12.96 (0.510)
	Piston-to-piston pin clearance		0.002 – 0.014 (0.0001 – 0.0006)	0.02 (0.001)
	Piston ring-to-ring groove clearance	Top	0.015 – 0.045 (0.0006 – 0.0018)	0.08 (0.003)
		Second	0.015 – 0.045 (0.0006 – 0.0018)	0.08 (0.003)
	Piston ring end gap	Top	0.10 – 0.25 (0.004 – 0.0020)	0.45 (0.018)
		Second	0.10 – 0.25 (0.004 – 0.0020)	0.45 (0.018)
		Oil (side rail)	0.20 – 0.70 (0.008 – 0.028)	–
Cylinder-to-piston clearance			0.005 – 0.035 (0.0002 – 0.0014)	0.09 (0.004)
Connecting rod small end I.D.			13.010 – 13.028 (0.5122 – 0.5129)	13.05 (0.514)
Connecting rod-to-piston pin clearance			0.010 – 0.034 (0.0004 – 0.0013)	0.05 (0.002)

KICKSTARTER/DRIVE PULLEY/DRIVEN PULLEY/CLUTCH SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Drive belt width		19.0 (0.75)	18.0 (0.71)
Movable drive face	Bushing I.D.	22.035 – 22.085 (0.8675 – 0.8695)	22.11 (0.871)
	Boss O.D.	22.010 – 22.025 (0.8665 – 0.8671)	21.98 (0.865)
	Weight roller O.D.	17.92 – 18.08 (0.706 – 0.712)	17.5 (0.69)
Clutch	Lining thickness	–	2.0 (0.08)
	Clutch outer I.D.	125.0 – 125.2 (4.92 – 4.93)	125.5 (4.94)
Driven pulley	Face spring free length	111.4 (4.39)	108.0 (4.25)
	Driven face O.D.	33.965 – 33.985 (1.3372 – 1.3380)	33.94 (1.336)
	Movable driven face I.D.	34.000 – 34.025 (1.3386 – 1.3396)	34.06 (1.341)

FINAL REDUCTION SPECIFICATIONS

Unit: mm (in)

ITEM		SPECIFICATIONS
Final reduction oil capacity	After draining	0.10 liter (0.11 US qt, 0.09 Imp qt)
	After disassembly	0.12 liter (0.13 US qt, 0.11 Imp qt)
Recommended final reduction oil		API classification: SE, SF or SG (except oils labeled as energy conserving on the circular API service label) Viscosity: SAE 10W-30 JASO T 903 standard: MB

CRANKCASE/CRANKSHAFT SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Crankshaft	Connecting rod side clearance	0.10 – 0.35 (0.004 – 0.014)	0.55 (0.022)
	Connecting rod radial clearance	0.004 – 0.016 (0.0002 – 0.0006)	0.05 (0.002)
	Runout	–	0.10 (0.004)

FRONT WHEEL/SUSPENSION/STEERING SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Minimum tire tread depth		—	To the indicator
Cold tire pressure	Driver only	200 kPa (2.00 kgf/cm ² , 29 psi)	—
	Driver and passenger	200 kPa (2.00 kgf/cm ² , 29 psi)	—
Axle runout		—	0.2 (0.01)
Wheel rim runout	Radial	—	2.0 (0.08)
	Axial	—	2.0 (0.08)
Fork	Spring free length	311.3 (12.26)	305.1 (12.01)
	Pipe runout	—	0.2 (0.01)
	Recommended fluid	Fork fluid	—
	Fluid level	82 (3.2)	—
	Fluid capacity	68 ± 1 cm ³ (2.3 ± 0.03 US oz, 2.4 ± 0.04 Imp oz)	—

REAR WHEEL/SUSPENSION SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Minimum tire tread depth		—	To the indicator
Cold tire pressure	Driver only	225 kPa (2.25 kgf/cm ² , 33 psi)	—
	Driver and passenger	225 kPa (2.25 kgf/cm ² , 33 psi)	—
Wheel rim runout	Radial	—	2.0 (0.08)
	Axial	—	2.0 (0.08)

BRAKE SYSTEM SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Brake lever freeplay		10 – 20 (0.4 – 0.8)	—
Brake drum I.D.		130.0 – 130.2 (5.12 – 5.13)	131.0 (5.16)
Specified brake fluid		DOT 3 or 4	—
Brake disc	Thickness	3.3 – 3.7 (0.13 – 0.15)	3.0 (0.12)
	Warpage	—	0.10 (0.004)
Master cylinder	Cylinder I.D.	11.000 – 11.043 (0.4331 – 0.4348)	11.055 (0.4352)
	Piston O.D.	10.957 – 10.984 (0.4314 – 0.4324)	10.945 (0.4309)
Caliper	Cylinder I.D.	32.030 – 32.080 (1.2610 – 1.2630)	32.090 (1.2634)
	Piston O.D.	31.948 – 31.998 (1.2578 – 1.2598)	31.94 (1.257)

BATTERY/CHARGING SYSTEM/ALTERNATOR SPECIFICATIONS

ITEM		SPECIFICATIONS
Battery	Capacity	12 V – 3.0 Ah/3.5 Ah
	Current leakage	0.5 mA max.
	Voltage	Fully charged
		Needs charging
	Charging current	Normal
		Quick
Alternator	Capacity	0.140 kW/5,000 min ⁻¹ (rpm)
	Charging coil resistance	0.2 – 1.0 Ω (20°C/68°F)
	Lighting coil resistance	0.1 – 0.8 Ω (20°C/68°F)
Regulator/rectifier regulated voltage (Lighting output)		12.6 – 13.6 V/5,000 min ⁻¹ (rpm)

IGNITION SYSTEM SPECIFICATIONS

ITEM	SPECIFICATIONS
Spark plug	CR7EH-9 (NGK), U22FER9 (DENSO)
Spark plug gap	0.80 – 0.90 mm (0.031 – 0.035 in)
Ignition coil peak voltage	100 V minimum
CKP sensor peak voltage	0.7 V minimum
Ignition timing	14° BTDC at idle speed

ELECTRIC STARTER SYSTEM SPECIFICATION

Unit: mm (in)

ITEM	STANDARD	SERVICE LIMIT
Starter motor brush length	7.0 (0.28)	3.5 (0.14)

LIGHTS/METERS/SWITCHES SPECIFICATION

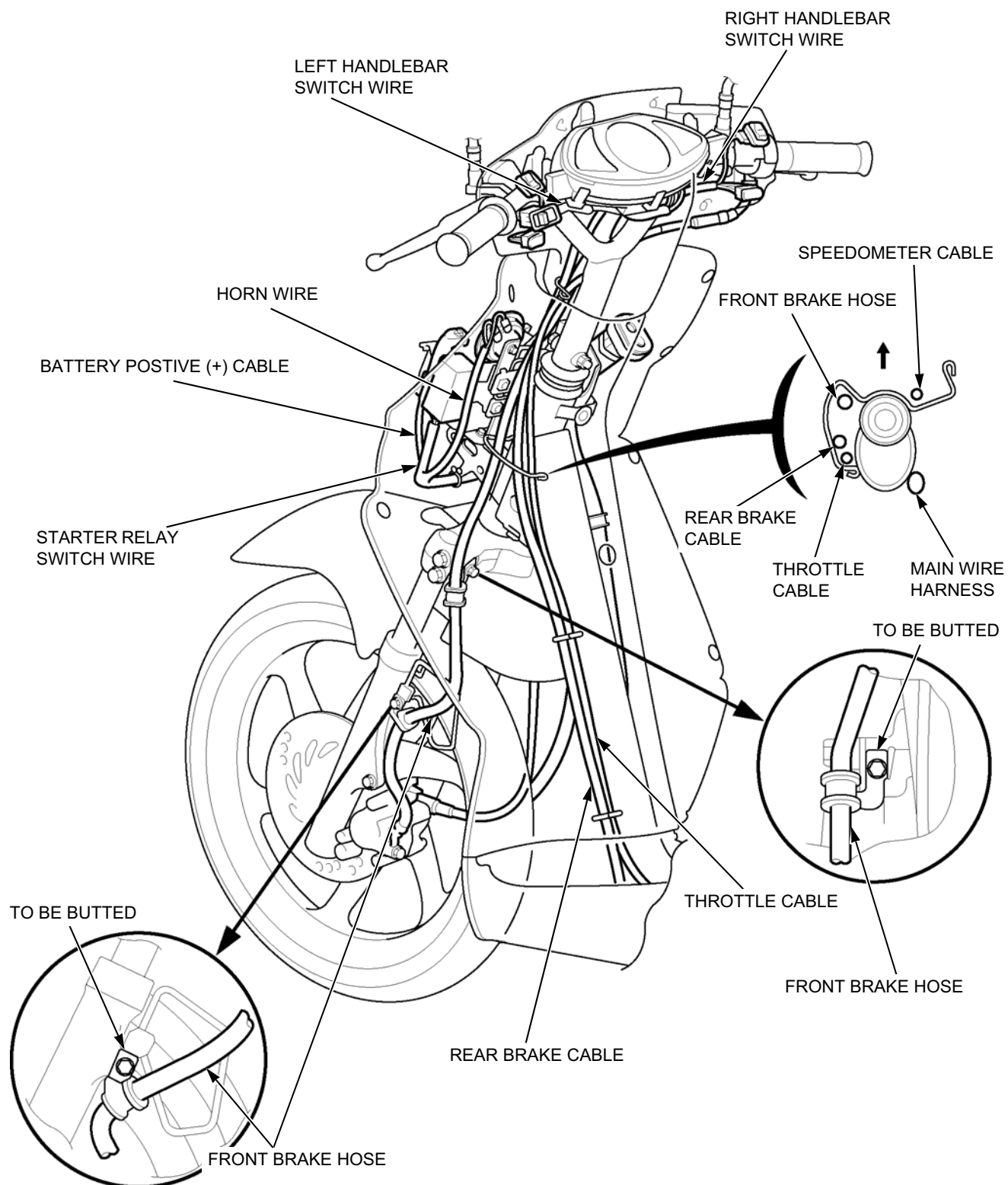
ITEM		SPECIFICATIONS
Bulbs	Headlight	12 V – 35/35 W
	Tail/brake light	12 V – 5W/10W x2
	Front turn signal light	12 V – 10 W x 2
	Rear turn signal light	12 V – 10 W x 2
	Instrument light	12 V – 1.7 W x 2
	High beam indicator	12 V – 1.7 W
	Turn signal indicator	12 V – 3.4 W x 2
	Coolant temperature warning indicator	LED
Fuse	Main fuse	15 A x 1
	Sub fuse	10 A x 1
ECT sensor resistance	at 40 °C (104 °F)	1.0 – 1.3 kΩ
	at 100 °C (212 °F)	0.1 – 0.2 kΩ

LUBRICATION & SEAL POINTS

FRAME

MATERIAL	LOCATION	REMARKS
Multi-purpose grease with extreme pressure (recommended: EXCELIGHT EP2 manufactured by KYODO YUSHI, japan. or Shell AL-VANIA EP2 or equivalent)	Steering bearing race Steering stem dust seal lip	Spread each 3 g minimum Spread each 3 g minimum
Grease(Shell BEARING GREASE HD or equivalent)	Speedometer gear box inside	
Multi-purpose grease	Front wheel dust seal lip Front wheel axle sliding surface Front wheel distance collar whole surface Front wheel bearing sliding area Speedometer gear box seal lip Rear brake cam and shaft Rear brake anchor pin shaft Rear brake dust seal lip Rear brake lever pivot screw sliding surface Equalizer rod pivot screw sliding surface Throttle cable-to-throttle drum sliding area Seat catch contact area Centerstand pivot area Sidestand pivot area	Spread each 0.2 - 0.3 g Spread 0.2 - 0.3 g Apply 0.1 - 0.2 g Apply 1.5 g minimum
Silicone grease	Rear brake cable cap boot inside Front brake lever-to-master piston contacting area Front brake lever pivot sliding area Brake caliper pin sliding area Brake caliper pad pin O-ring whole surface. Brake caliper dust seal whole surface Brake equalizer cable cap boot inside Speedometer cable Throttle cable boot inside Throttle cable inside	Spread each 0.1 g Spread 0.4 g minimum Fill up 0.1 g Fill up 0.2 g minimum
Brake fluid (DOT 3 or DOT 4)	Master cylinder inside and sliding area Brake caliper piston seal whole surface Brake caliper piston whole surface Master cylinder piston cup	
Fork fluid	Fork dust seal and oil seal lips Fork spring seat O-ring whole surface	
Adhesive(Honda bond A or equivalent)	Handlebar grip rubber inside Air cleaner connecting hose-to-housing mating area	

CABLE & HARNESS ROUTING



BRAKE CALIPER

REMOVAL

Avoid spilling fluid on painted, plastic, or rubber parts.

Place a shop towel over these parts whenever the system is serviced.

Drain the brake fluid.

Remove the following:

- Brake pads
- Oil bolt/sealing washers
- Brake caliper mounting torx bolts
- Brake caliper

INSTALLATION

Install the front brake caliper onto the left fork leg.

Install new brake caliper mounting bolts and tighten them to the specified torque.

TORQUE: 30 N·m (3.1 kgf·m, 22 lbf·ft)

Connect the brake hose to the brake caliper with the oil bolt and new sealing washers.

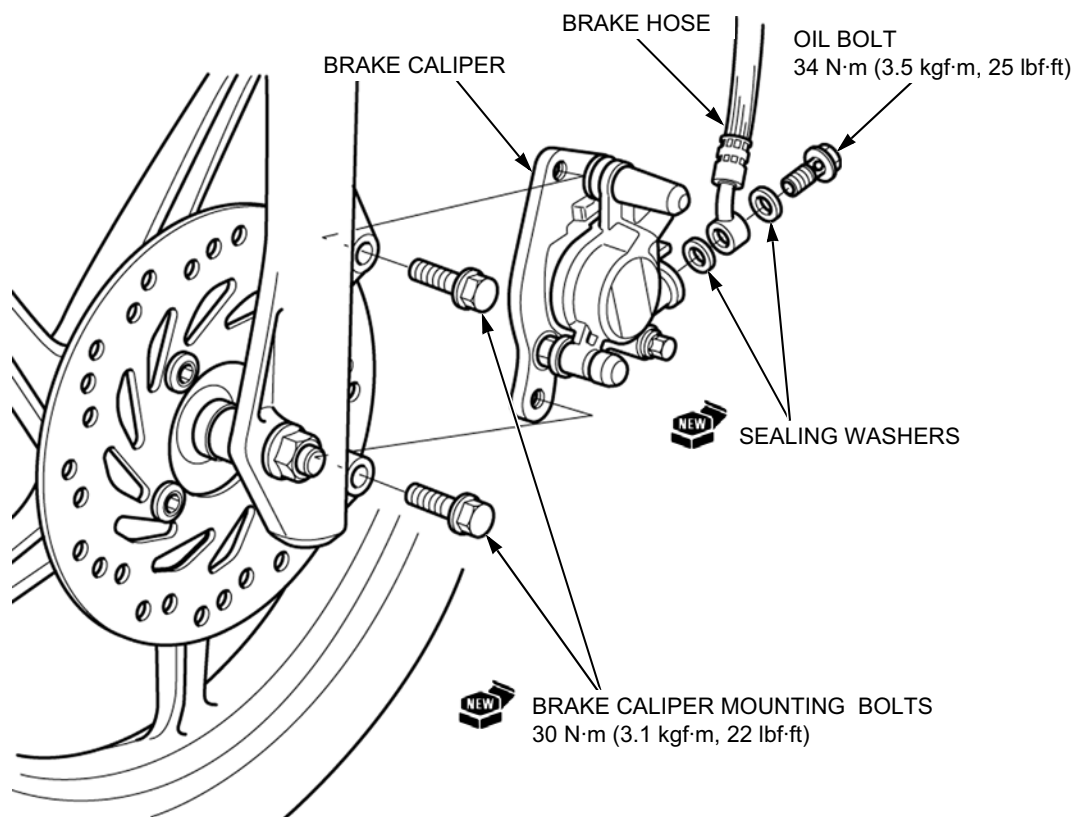
Tighten the oil bolt to the specified torque.

TORQUE: 34 N·m (3.5 kgf·m, 25 lbf·ft)

Install the brake pads (page 1-15)

Fill the brake fluid and bleed the hydraulic system

Tighten the oil bolt while pushing the brake hose eyelet joint against the stopper.



DISASSEMBLY/ASSEMBLY

Remove the following:

- Caliper bracket
- Bracket pin boots
- Pad spring

Place a shop towel over the piston.

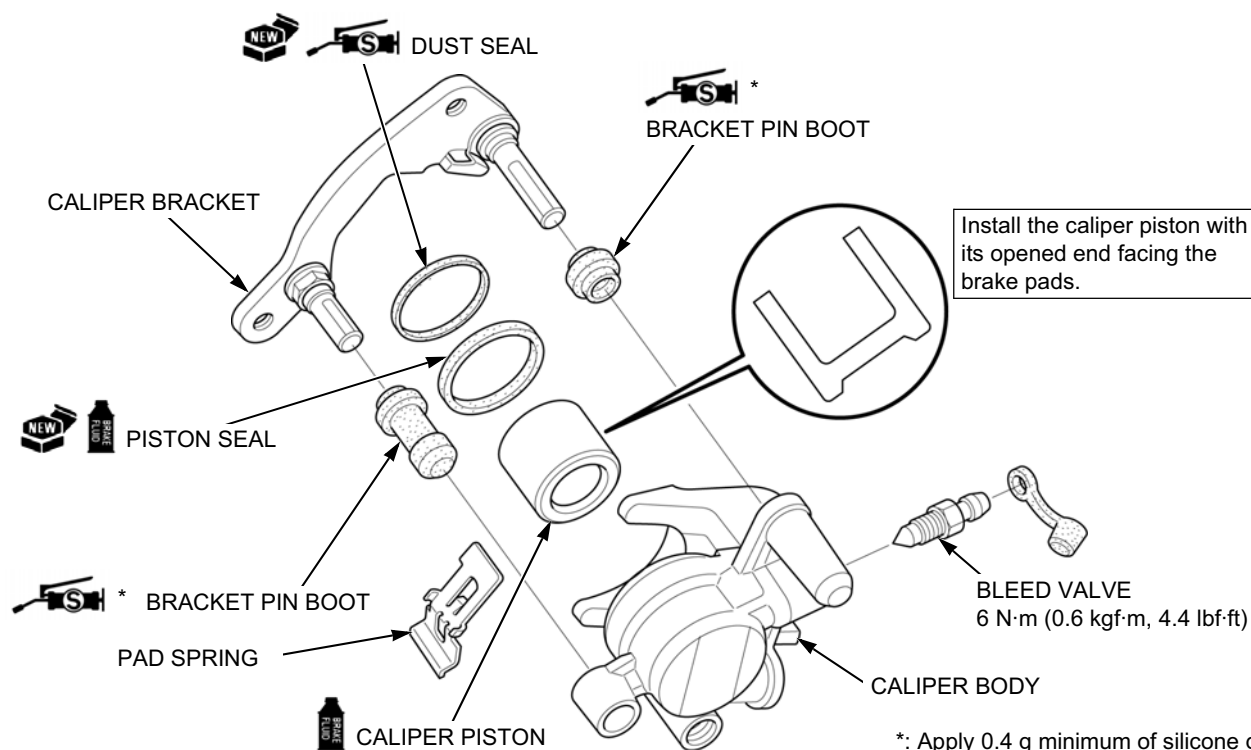
Do not use high pressure air or bring the nozzle too close to the inlet.

Position the caliper body with the piston facing down and apply small squirts of air pressure to the fluid inlet to remove the piston.

Remove the dust seal and piston seal.

Assembly is in the reverse order of disassembly.

- Apply silicone grease to the dust seal and bracket pin boots.
- Apply brake fluid to the piston and piston seal.
- Replace the dust seal and piston seal with new ones.



INSPECTION

Check the caliper cylinder for scoring, scratches or damage.

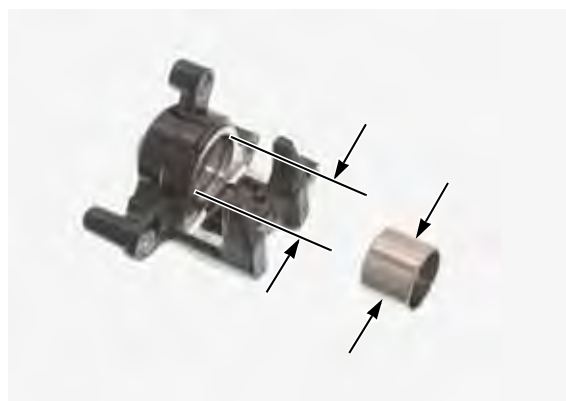
Measure the caliper cylinder I.D.

SERVICE LIMIT: 32.090 mm (1.2634 in)

Check the caliper piston for scoring, scratches or damage.

Measure the caliper piston O.D.

SERVICE LIMIT: 31.94 mm (1.257 in)



BRAKE PAD

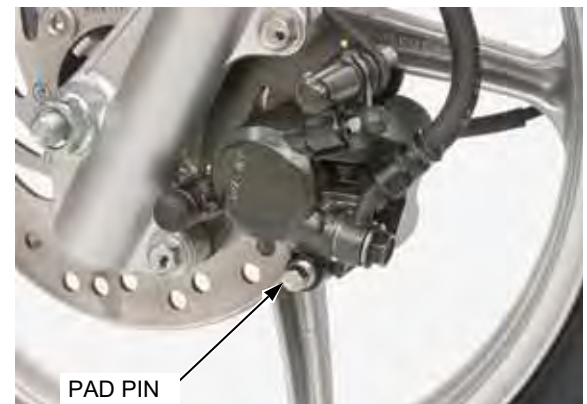
BRAKE PAD REPLACEMENT

Check the brake fluid level in the reservoir as this operation causes the level to rise.

Push the caliper piston in the direction as shown to allow installation of new brake pads.



Remove the pad pin from the brake caliper.

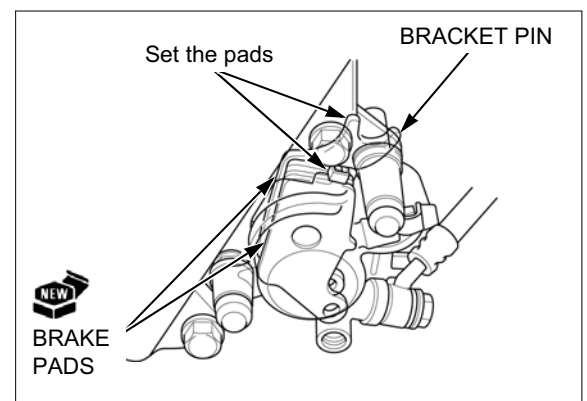


Remove the brake pads from the brake caliper.



Always replace the brake pads in pairs to assure even disc pressure.

Install new brake pads so that they are set on the brake caliper bracket and bracket pin.



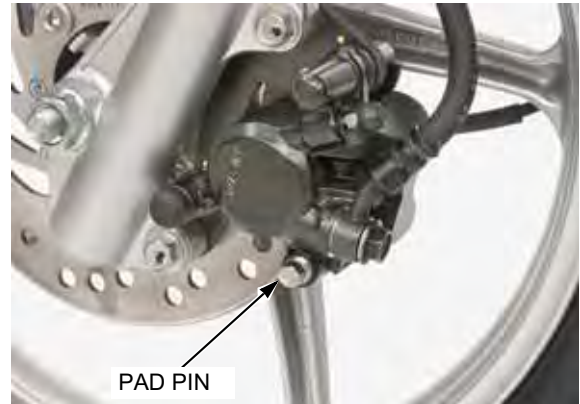
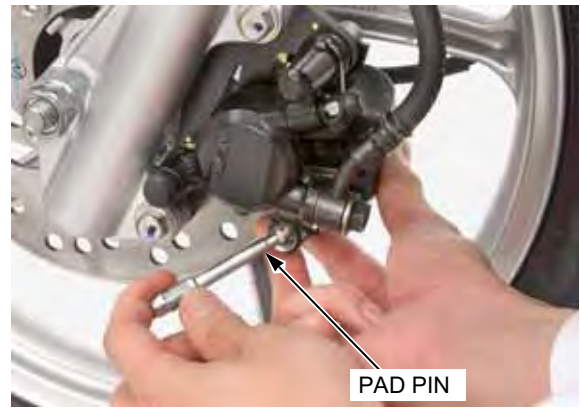
ACB110CB-A ADDENDUM

Install the pad pin by pushing the brake pads against the pad spring to align the pad pin holes on the pads and caliper hole.

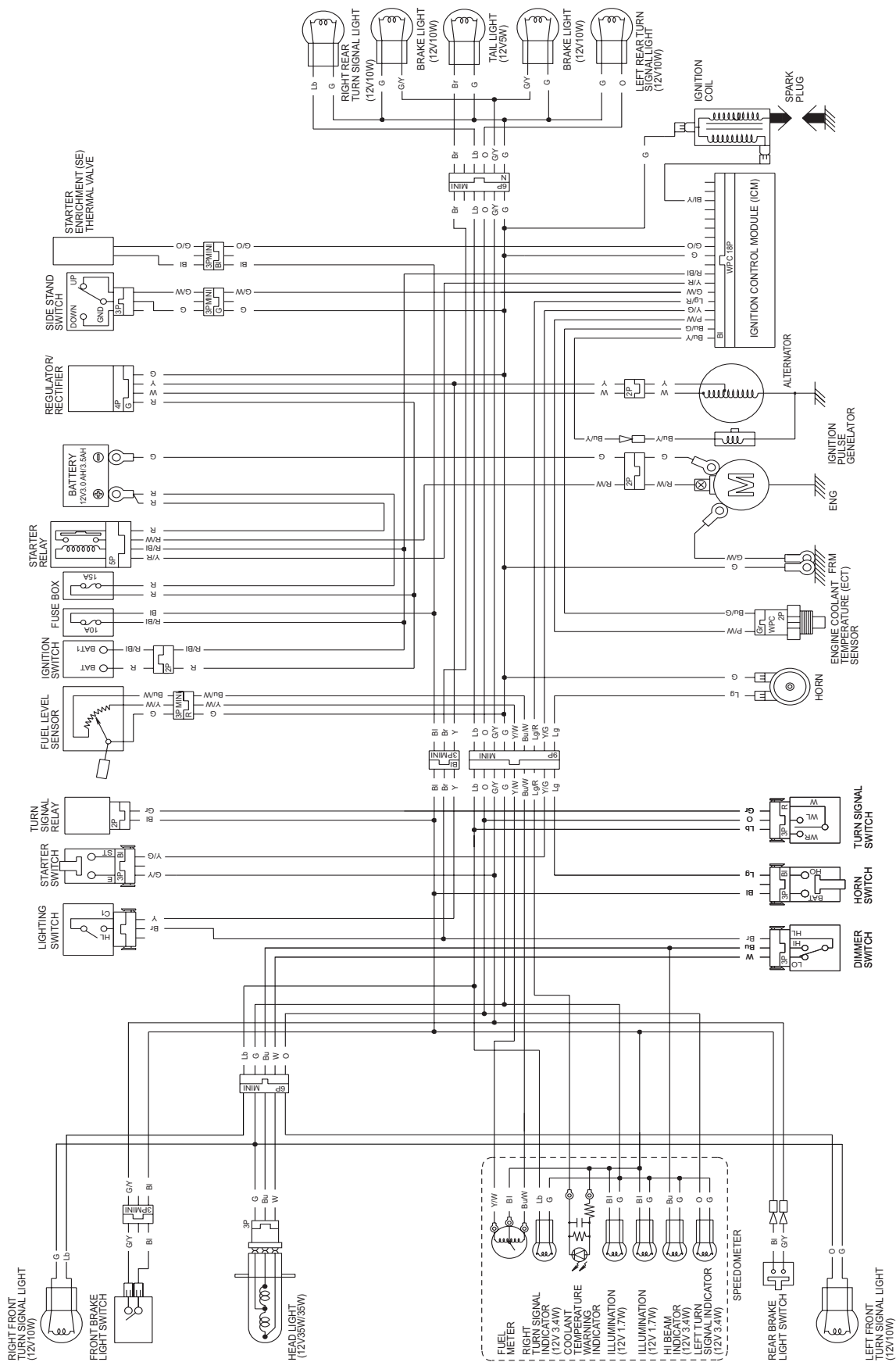
After the brake pad replacement, check the brake operation by applying the brake lever.

Tighten the pad pin to the specified torque.

TORQUE: 18 N·m (1.8 kgf·m, 13 lbf·ft)



WIRING DIAGRAM

[illegible]

MEMO

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