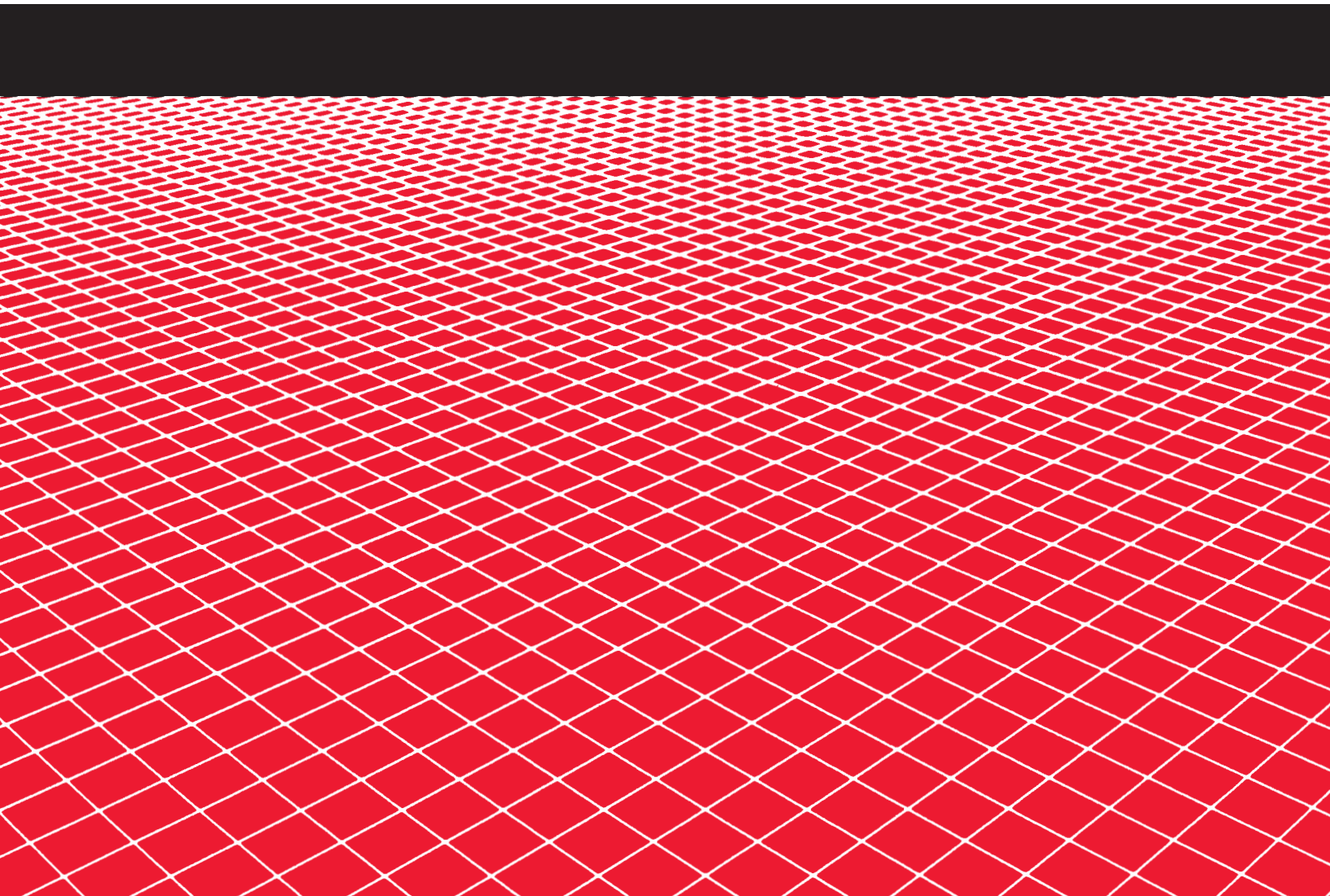




SHOP MANUAL

CBF125S



CBF125Sk

25. CBF125S-K ADDENDUM

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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 or others 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 recommend 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.

INTRODUCTION


This manual describes the service procedures for the CBF125S-K.

Refer to CGX125SH-C (No.62KYYB0), CGX125SH-D (No.62KYYB0Z), CGX125SH-E (No.62KYYB0Y), CGX125WH-F (No.62KYYB0X), CGX125SH-F (No.62KYYB0W), CGX125SH-H (No.62KYYB0V), CGX125TF-H (No.62KYYB0U), and CBF125S-J/K (62KYYB0T) 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.

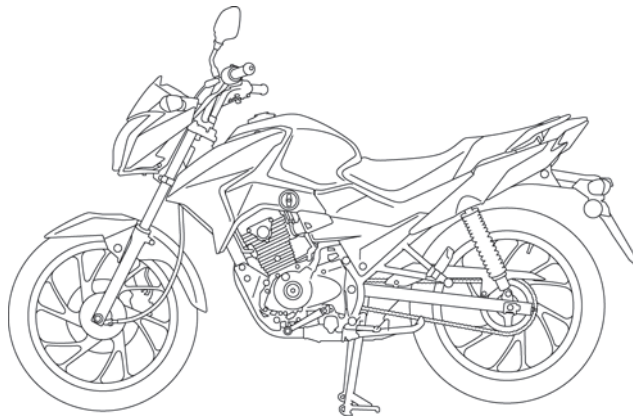
As you read this manual, you will find information that is preceded by a ** NOTICE** symbol. The purpose of this message is to help prevent damage to your vehicle, other property, or the environment.

ALL INFORMATION, ILLUSTRATIONS, DIRECTIONS AND SPECIFICATIONS INCLUDED IN THIS PUBLICATION ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF APPROVAL FOR PRINTING. Honda Motor Co., Ltd. RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE AND WITHOUT INCURRING ANY OBLIGATION WHATSOEVER. NO PART OF THIS PUBLICATION MAY BE REPRODUCED WITHOUT WRITTEN PERMISSION. THIS MANUAL IS WRITTEN FOR PERSONS WHO HAVE ACQUIRED BASIC KNOWLEDGE OF MAINTENANCE ON Honda MOTORCYCLES, MOTOR SCOOTERS OR ATVS.

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SERVICE PUBLICATION OFFICE

Date of Issue: September, 2018

MODEL IDENTIFICATION

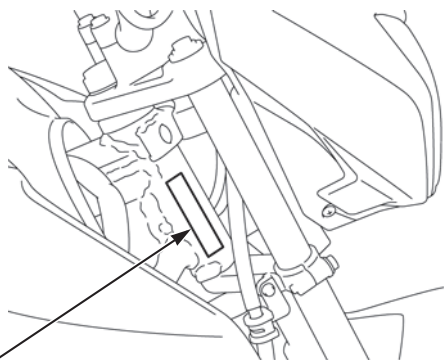


This manual covers following types of CBF125S models:

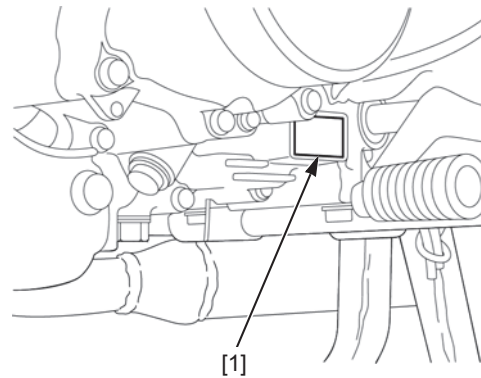
Code	Country	Air cut-off valve	Carburetor heater	Secondary air supply system
II AG	Argentina	-	O	O
II CO	Columbia	O	-	O
II MX	Mexico	O	-	O
III CO	Columbia	-	-	O

SERIAL NUMBERS

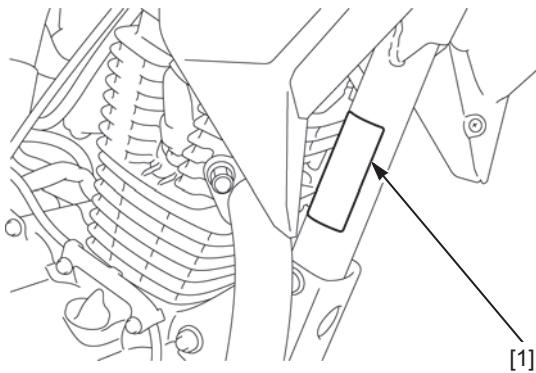
The Vehicle Identification Number (V.I.N.) [1] is stamped on the right side of the steering head.



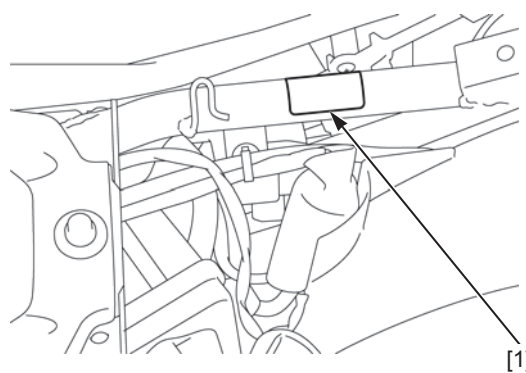
The engine serial number [1] is stamped on the lower left side of the crankcase.



Except II AG type: The registered number plate [1] is riveted on the right side of the frame pipe.



The color label [1] is attached as shown. When ordering color-coded parts, always specify the designated color code.



SPECIFICATIONS

GENERAL SPECIFICATIONS

ITEM		SPECIFICATION	
DIMENSIONS	Overall length	2,037 mm (80.2 in)	
	Overall width	772 mm (30.4 in)	
	Overall height	1,070 mm (42.1 in)	
	Wheelbase	1,310 mm (51.6 in)	
	Seat height	781 mm (30.7 in)	
	Footpeg height	284 mm (11.2 in)	
	Ground clearance	II AG/III CO	178 mm (7.0 in)
		II CO/II MX	183 mm (7.2 in)
	Curb weight	117 kg (258 lbs)	
Maximum weight capacity	155 kg (342 lbs)		
FRAME	Frame type	Diamond type	
	Front suspension	Telescopic fork	
	Front wheel travel	116 mm (4.6 in)	
	Rear suspension	Swingarm	
	Rear wheel travel	92 mm (3.6 in)	
	Front tire size	80/100-18MC 47P	
	Rear tire size	90/90-18M/C 51P	
	Front tire brand	P206 (YUANXING)	
	Rear tire brand	CY160B (YUANXING)	
	Front brake	Hydraulic single disc	
	Rear brake	Mechanical drum (leading-trailing)	
	Caster angle	27° 17'	
	Trail length	98 mm (3.9 in)	
	Fuel tank capacity	10.1 liters (2.67 US gal, 2.22 Imp gal)	
	Fuel tank reserve capacity	0.1 liter (0.03 US gal, 0.02 Imp gal)	
ENGINE	Cylinder arrangement	Single cylinder inclined 25° from vertical	
	Bore and stroke	52.4 x 57.9 mm (2.06 x 2.28 in)	
	Displacement	124.8 cm ³ (7.62 cu-in)	
	Compression ratio	9.0 : 1	
	Valve train	Chain driven OHC with rocker arm	
	Intake valve	opens	5° BTDC at 1 mm (0.04 in) lift
		closes	25° ABDC at 1 mm (0.04 in) lift
	Exhaust valve	opens	25° BBDC at 1 mm (0.04 in) lift
		closes	0° ATDC at 1 mm (0.04 in) lift
	Lubrication system	Forced pressure and wet sump	
	Oil pump type	Trochoid	
	Cooling system	Air cooled	
	Air filtration	Viscous paper filter	
Engine dry weight	23.8 kg (52.5 lbs)		
CARBURETOR	Carburetor type	Piston valve type	
	Throttle bore	18 mm (0.7 in)	
DRIVE TRAIN	Clutch system	Multi-plate, wet	
	Clutch operation system	Cable operating	
	Transmission	4 speeds	
	Primary reduction	3.250 (65/20)	
	Final reduction	3.142 (44/14)	
	Gear ratio	1st	3.181 (35/11)
		2nd	1.705 (29/17)
		3rd	1.238 (26/21)
4th		0.916 (22/24)	
Gearshift pattern	Left foot operated return system 1 - N - 2 - 3 - 4		
ELECTRICAL	Ignition system	DC - CDI	
	Starting system	Electric starter motor and kickstarter	
	Charging system	Single phase output alternator	
	Regulator/rectifier	SCR shorted, single phase full-wave rectification	
	Lighting system	Battery	

CBF125S-K ADDENDUM

FUEL SYSTEM SPECIFICATIONS

ITEM		SPECIFICATIONS
Carburetor identification number	II AG	PB7YS
	II CO/II MX	PB7YV
	III CO	PB7RW
Main jet	II AG/III CO	#102
	II CO/II MX	#100
Slow jet	II CO/II MX	#35
	II AG/III CO	#38
Air screw opening		1 3/4 turns out from the fully seated position
Float level		10.7 mm (0.42 in)
Idle speed		1,400 ± 100 min ⁻¹ (rpm)
PAIR control valve specified vacuum	II AG	54.7 kPa (410 mmHg)

BATTERY/CHARGING SYSTEM SPECIFICATIONS

ITEM		SPECIFICATIONS	
Battery	Type	II AG/II MX	12M7A-3A
		II CO/III CO	YB7BL-A

CBF125S-J/K ADDENDUM

IGNITION SYSTEM SPECIFICATIONS

	ITEM	SPECIFICATION
Spark plug	Standard	CPR6EA-9 (NGK)
	Option	CPR7EA-9 (NGK)

LUBRICATION SYSTEM SPECIFICATIONS

	ITEM	STANDARD	SERVICE LIMIT
Engine oil capacity	After draining	0.9 liter (0.95 US qt, 0.80 Imp qt)	–
	After disassembly	1.0 liters (1.1 US qt, 0.9 Imp qt)	–

FRONT WHEEL/BRAKE/SUSPENSION/STEERING SPECIFICATIONS

Unit: mm (in)

	ITEM	STANDARD	SERVICE LIMIT
Cold tire pressure	Driver only	175 kPa (1.75 kgf/cm ² , 25 psi)	–
	Driver and passenger	175 kPa (1.75 kgf/cm ² , 25 psi)	–
Wheel rim runout	Radial	–	2.0 (0.08)
	Axial	–	2.0 (0.08)
Fork	Spring free length	454.5 (17.90)	–
	Fluid level	169.5 (6.7)	–
	Fluid capacity	135 ± 2.5 cm ³ (4.6 ± 0.08 US oz, 4.8 ± 0.09 Imp oz)	–

REAR WHEEL/BRAKE/SUSPENSION SPECIFICATIONS

Unit: mm (in)

	ITEM	STANDARD	SERVICE LIMIT
Wheel rim runout	Radial	–	2.0 (0.08)
	Axial	–	2.0 (0.08)

BRAKE SYSTEM SPECIFICATIONS

Unit: mm (in)

	ITEM	STANDARD	SERVICE LIMIT
Front	Specified brake fluid	DOT 3 or DOT 4 brake fluid	–
	Brake disc thickness	4.5 ± 0.1 (0.18 ± 0.004)	3.5 (0.14)
	Brake disc warpage	–	0.25 (0.01)
	Master cylinder I.D.	12.700 – 12.743 (0.5000 – 0.5017)	–
	Master piston O.D.	12.657 – 12.684 (0.4983 – 0.4994)	–
	Caliper cylinder I.D.	25.400 – 25.450 (1.0000 – 1.0020)	–
	Caliper piston O.D.	25.318 – 25.368 (0.9968 – 0.9987)	–

BATTERY/CHARGING SYSTEM SPECIFICATIONS

ITEM		SPECIFICATIONS
Alternator	Capacity	0.12 kW/5,000 min ⁻¹ (rpm)

LIGHTS/METER/SWITCHES SPECIFICATIONS

ITEM		SPECIFICATION
Bulbs	Neutral indicator	12 V - 3.4 W
	License light	12 V - 5 W

TORQUE VALUES**ENGINE & FRAME TORQUE VALUES****FRAME/BODY PANELS/EXHAUST SYSTEM**

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Side cover mounting screw (6 x 17 mm)	2	6	5 (0.5, 3.7)	
Front fender mounting bolt	4	6	10 (1.0, 7)	
Shroud mounting bolt	4	6	5 (0.5, 3.7)	
Rear center cowl mounting screw	2	5	4.3 (0.4, 3.2)	
Exhaust pipe mounting nut	2	8	26 (2.7, 19)	

MAINTENANCE

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Air cleaner case cover screw	4	5	1.2 (0.1, 0.9)	

FUEL SYSTEM

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Fuel unit mounting nut	4	6	10 (1.0, 7)	

FRONT WHEEL/SUSPENSION/STEERING

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Clutch lever pivot nut	1	6	12 (1.2, 9)	
Front brake disc mounting bolt	6	8	42 (4.3, 31)	ALOC bolt; replace with a new one.

REAR WHEEL/BRAKE/SUSPENSION

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Driven sprocket nut	4	10	65 (6.6, 48)	Self lock nut

BRAKE SYSTEM

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Caliper bleed valve	1	8	8 (0.8, 5.9)	
Master cylinder reservoir cap screw	2	4	1.5 (0.2, 1.1)	
Master cylinder holder bolt	2	6	12 (1.2, 9)	
Brake caliper mounting bolt	2	8	26 (2.7, 19)	ALOC bolt; replace with a new one.
Front brake light switch screw	1	4	1.2(0.1, 0.9)	
Brake lever pivot bolt	1	6	1.0 (0.1, 0.7)	
Brake lever pivot nut	1	6	6 (0.6, 4.4)	
Brake hose oil bolt	2	10	34 (3.5, 25)	
Brake caliper slide pin	2	8	18 (1.8, 13)	Apply locking agent to the threads.
Pad pin	2	10	18 (1.8, 13)	
Pad pin plug	2	10	2.5 (0.3, 1.8)	

CBF125S-J/K ADDENDUM

BATTERY/CHARGING SYSTEM

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Battery holder bolt	1	6	5.8 (0.6, 4.3)	

LIGHTS/METER/SWITCHES

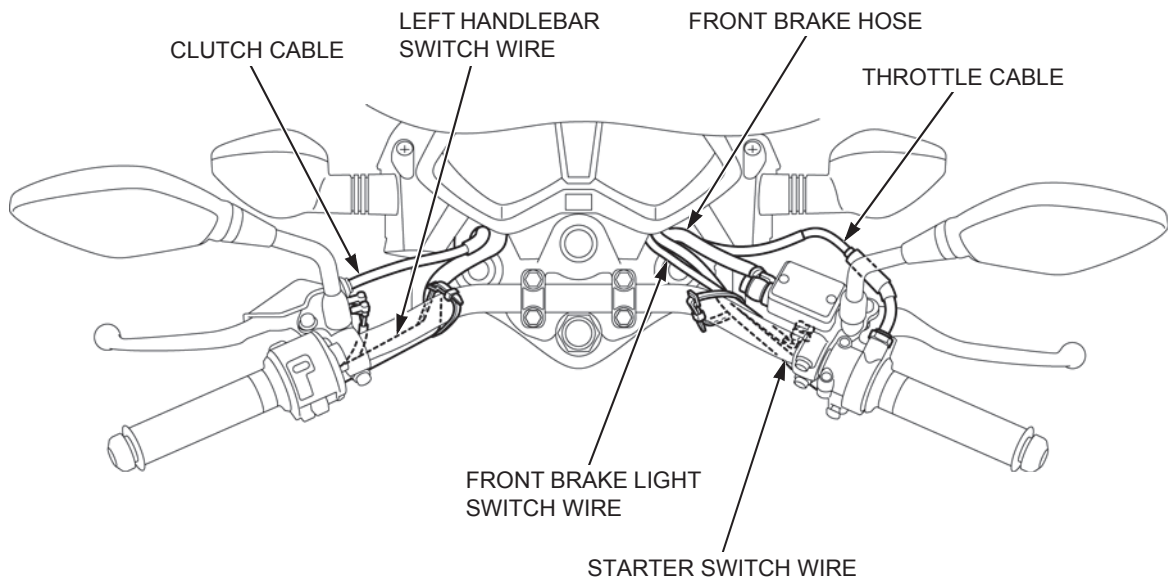
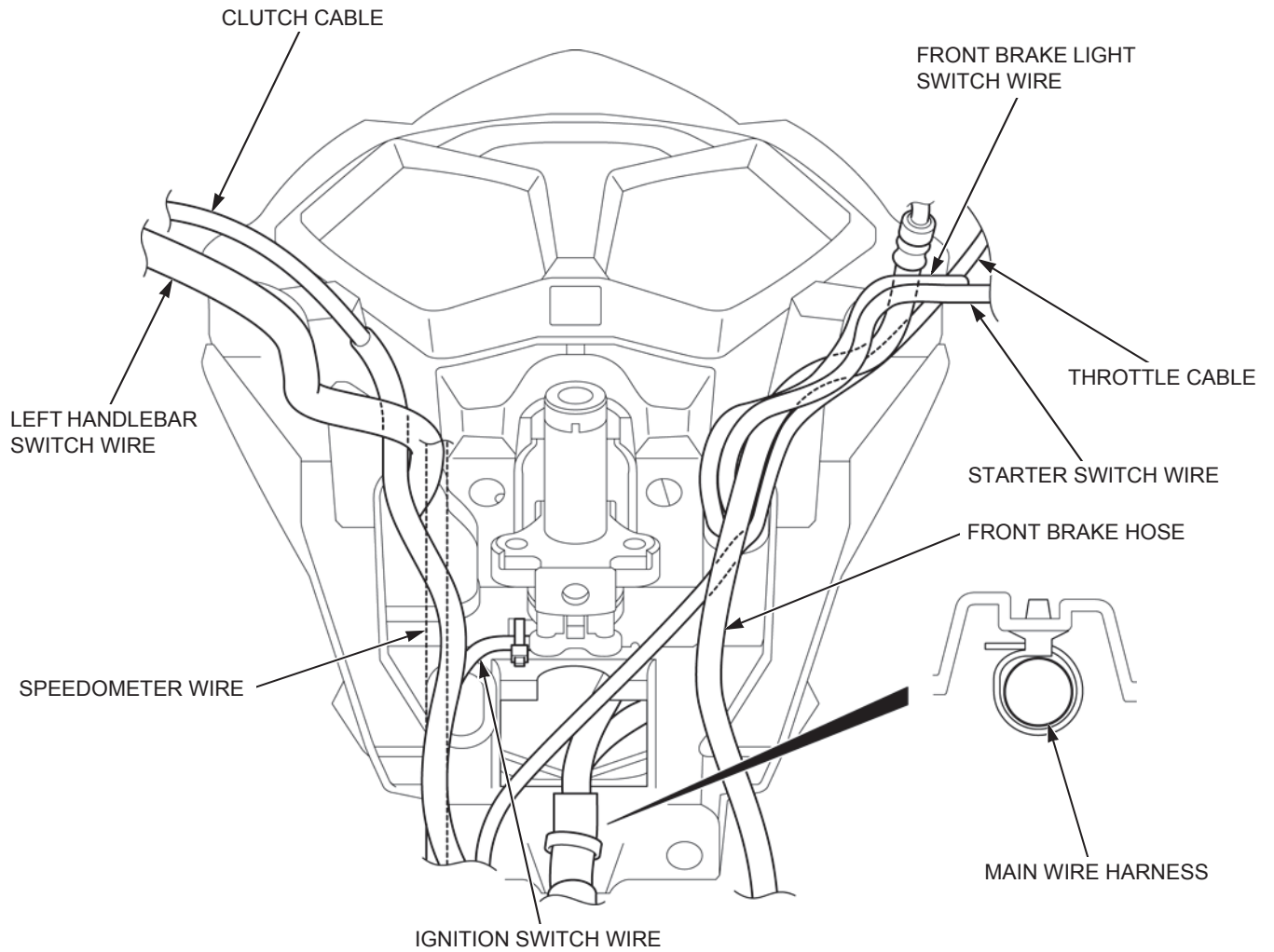
ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Headlight aiming bolt	1	4	1.8 (0.2, 1.3)	
Combination meter mounting screw	4	5	1.2 (0.1, 0.9)	
Turn signal light lens mounting screw	4	4	0.98 (0.1, 0.7)	
Taillight lens mounting screw	2	4	0.85 (0.1, 0.6)	
License light mounting nut	2	4	0.98 (0.1, 0.7)	

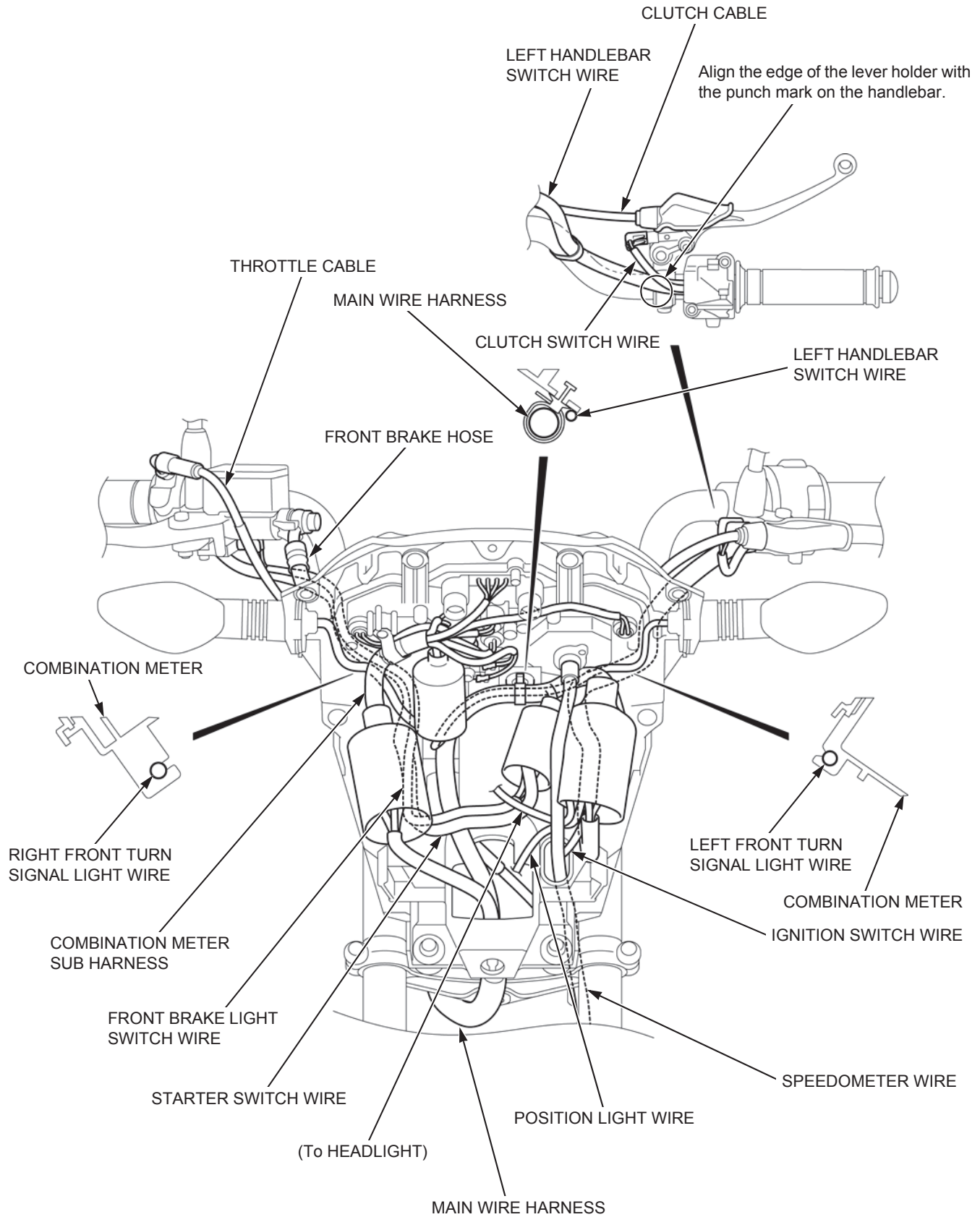
LUBRICATION & SEAL POINTS

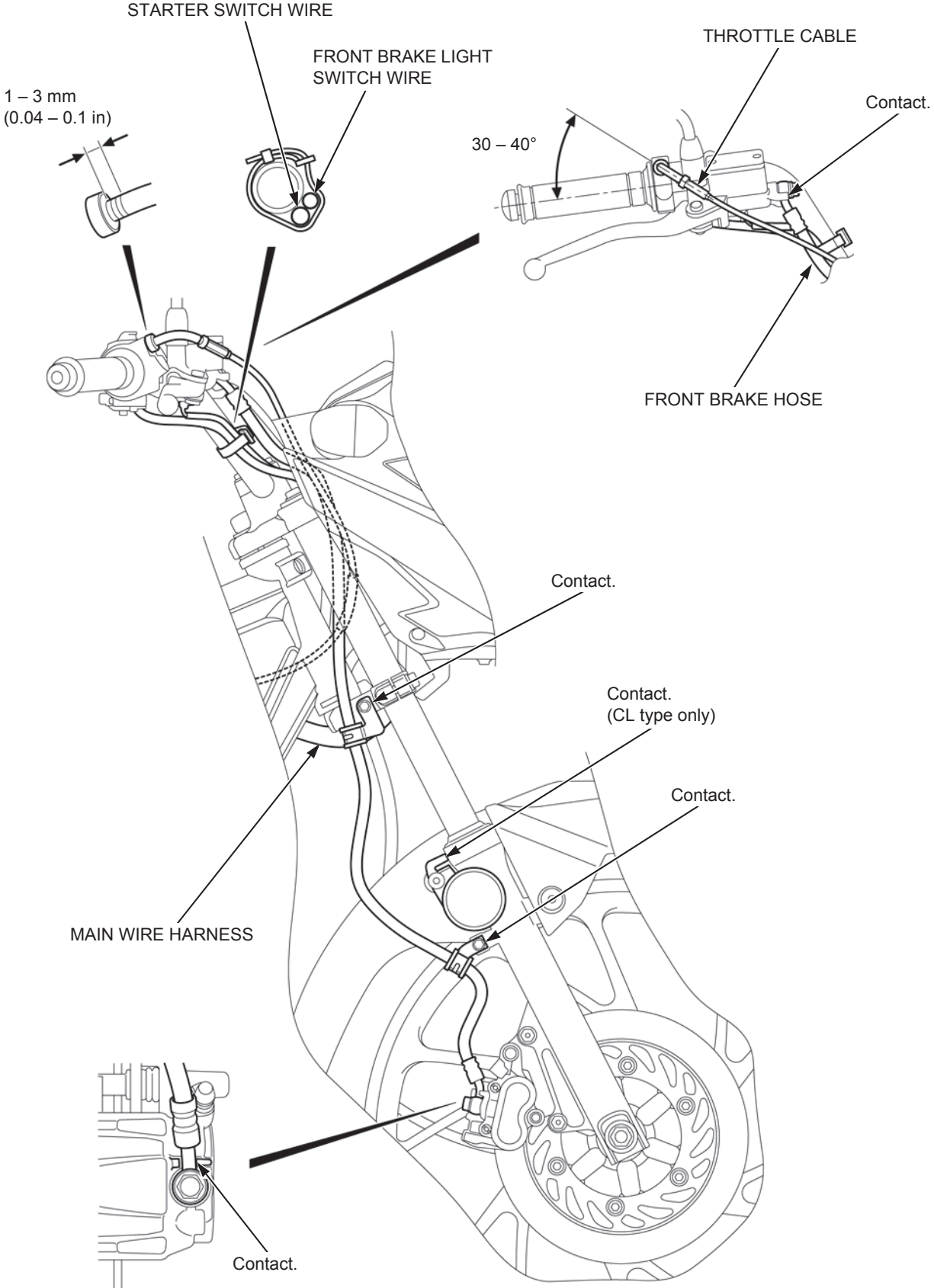
FRAME

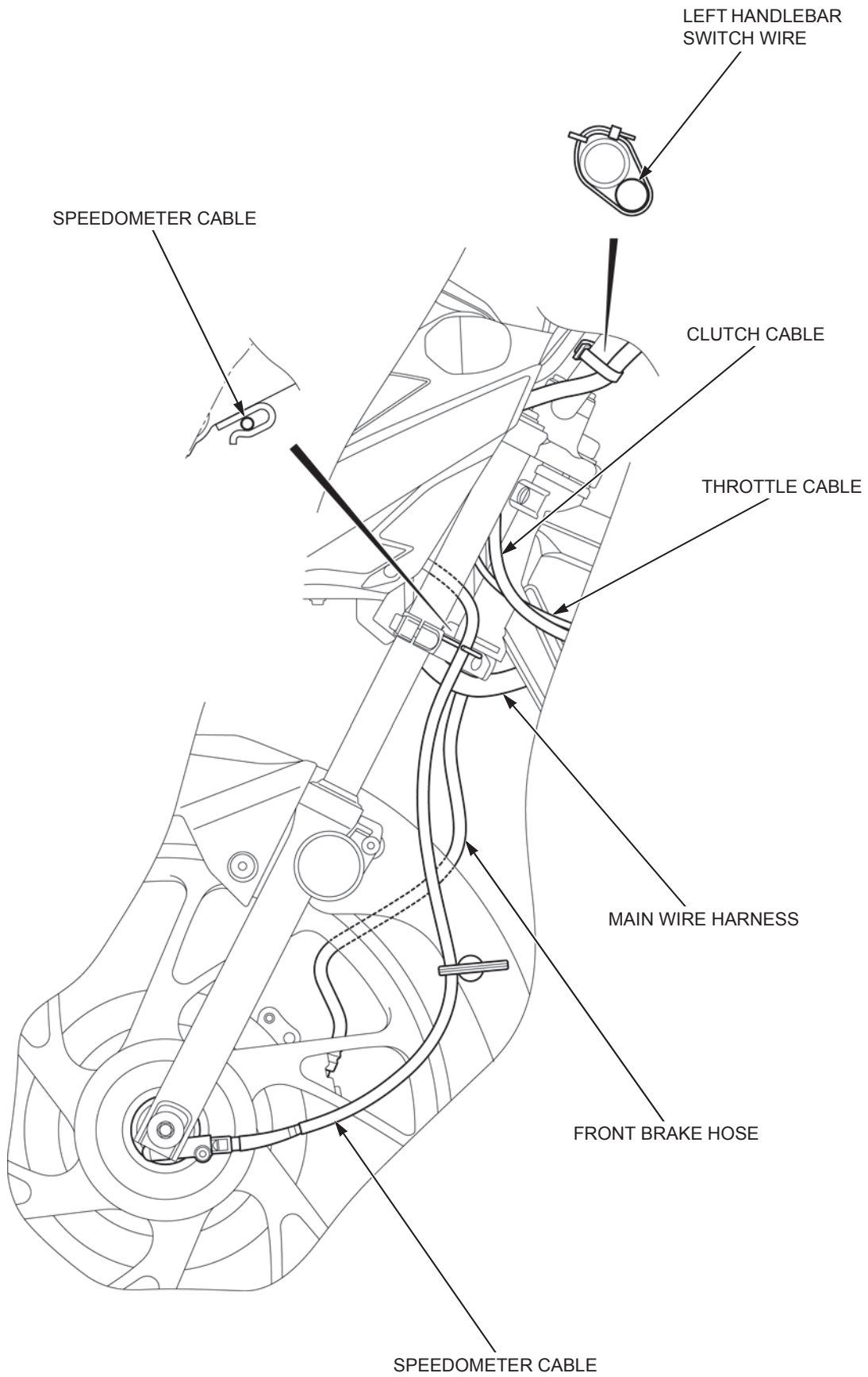
MATERIAL	LOCATION	REMARKS
Silicone grease	Front brake lever pivot sliding portion	
	Front brake lever-to-master piston contacting area	
	Caliper bracket pin boot	
	Brake caliper dust seal	
DOT 3 or DOT 4 brake fluid	Master cylinder piston cups	
	Brake caliper piston	
	Brake caliper piston seal	

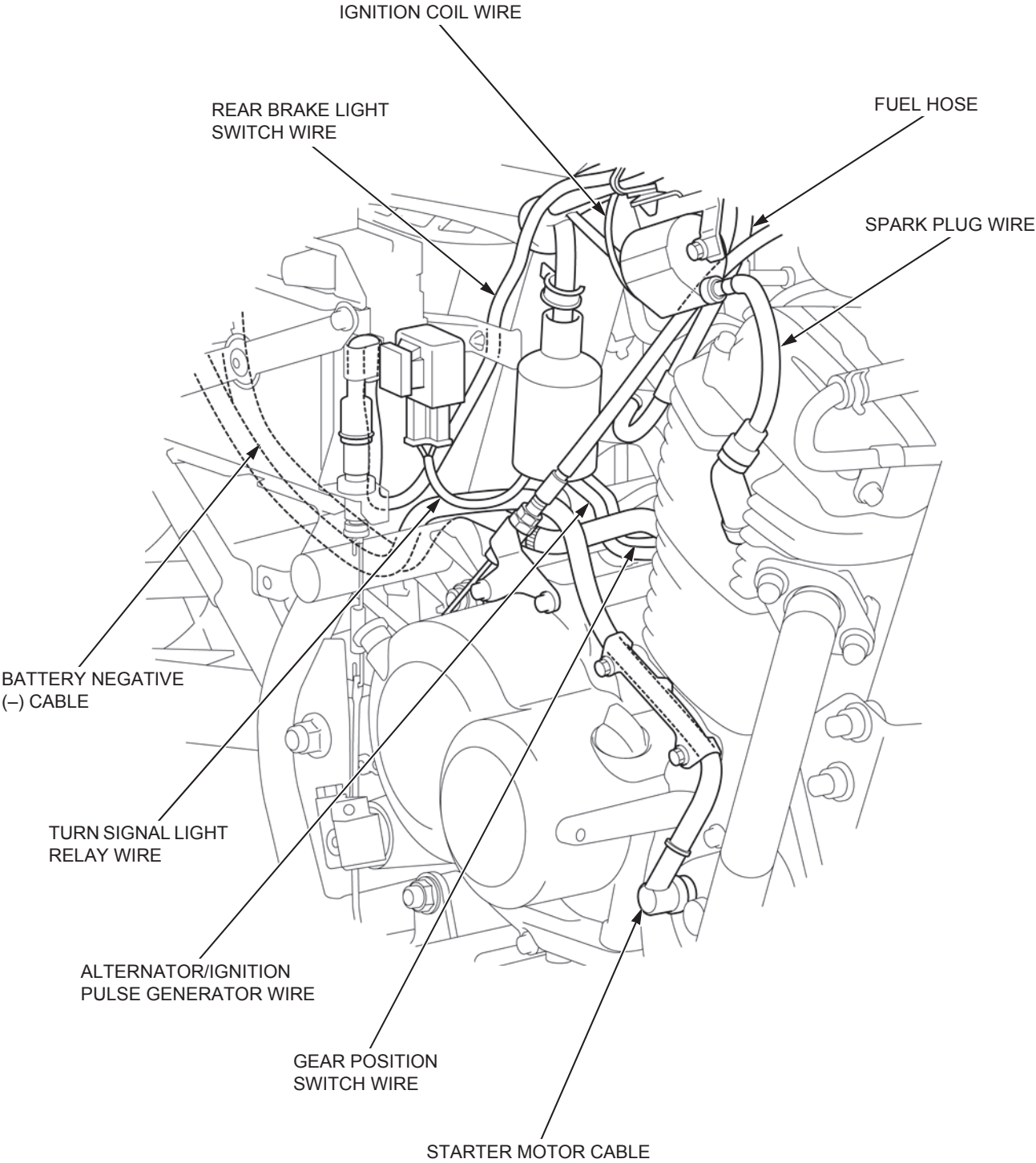
CABLE & HARNESS ROUTING



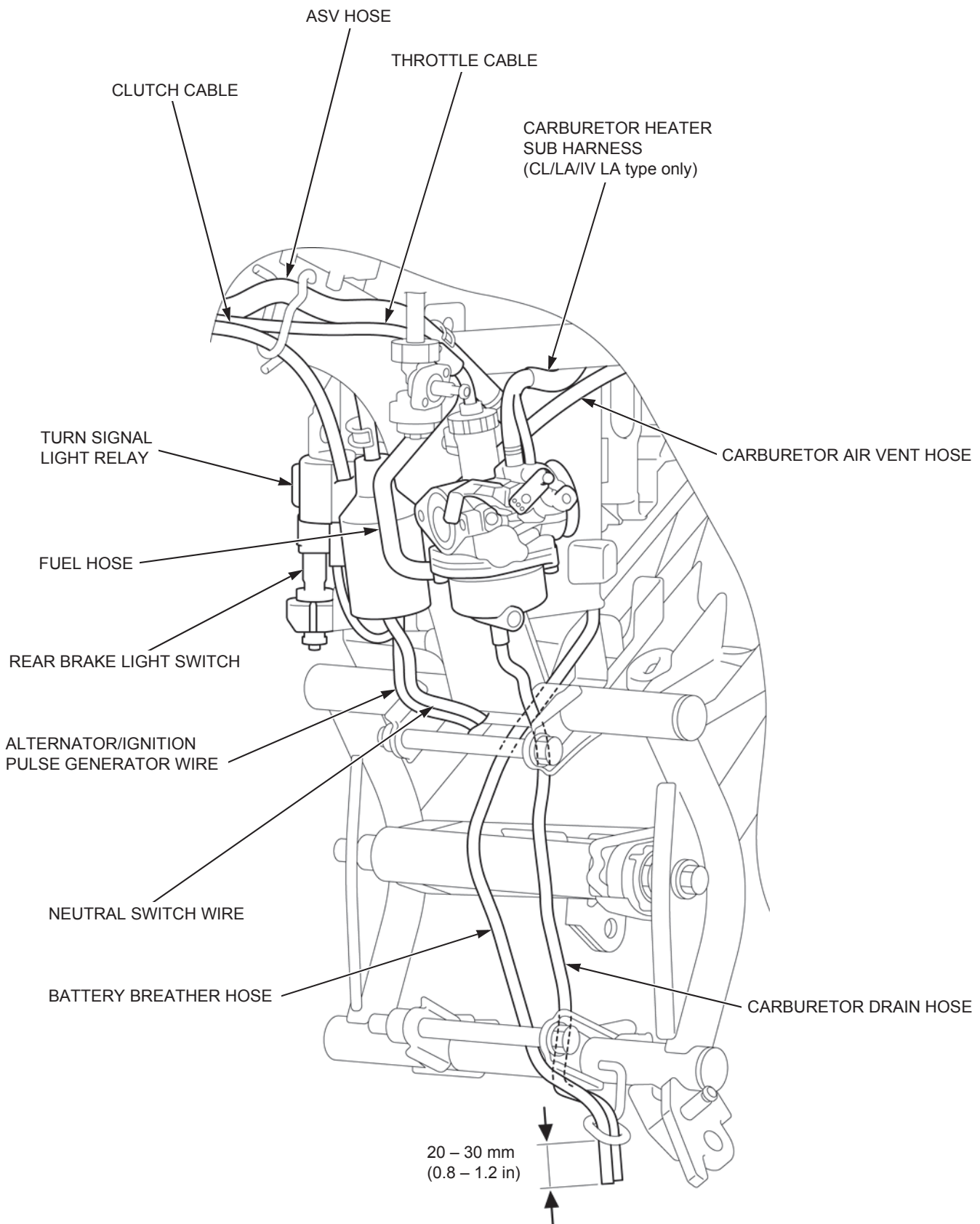


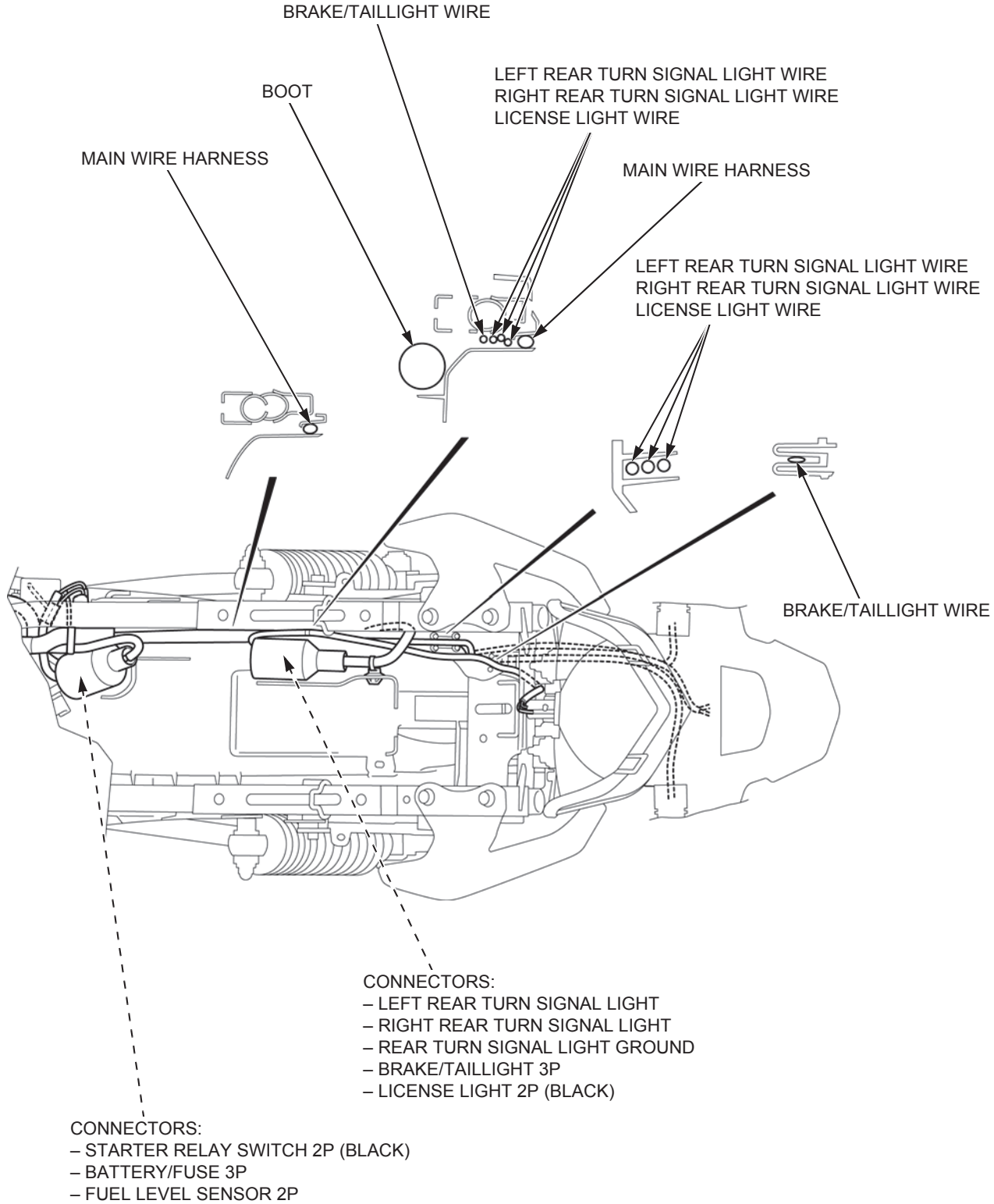


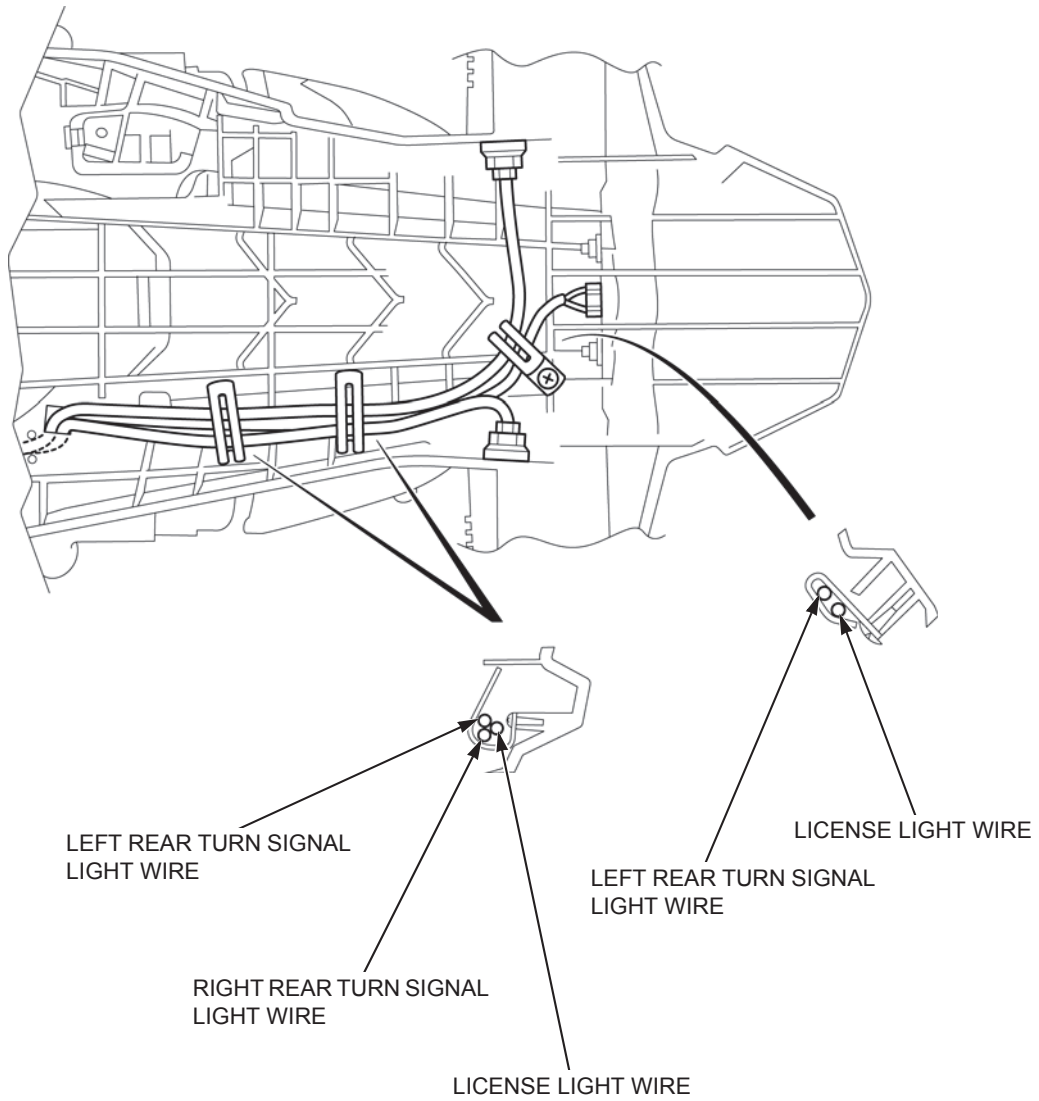




CBF125S-J/K ADDENDUM







SIDE COVER

REMOVAL/INSTALLATION

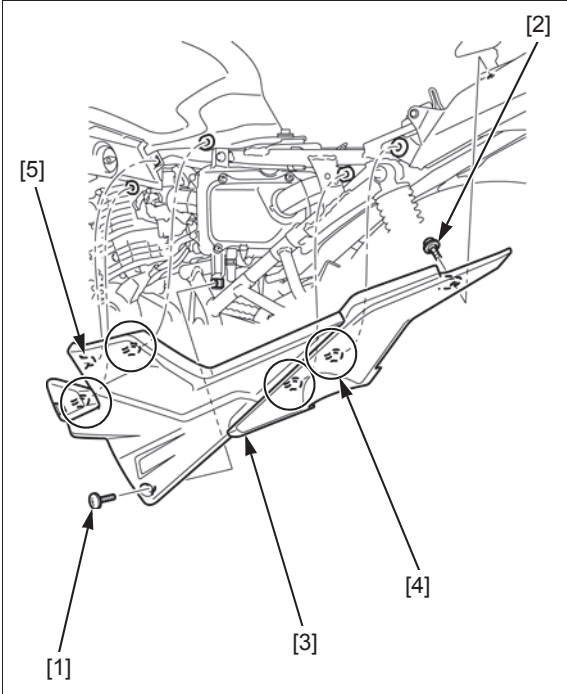
Remove the seat (page 24-18).

Remove the screws (6 x 17 mm [1], 6 x 11.5 mm [2]) and side cover [3] by releasing its bosses [4] and tab [5] from the grommets and slot.

Installation is in the reverse order of removal.

TORQUE:

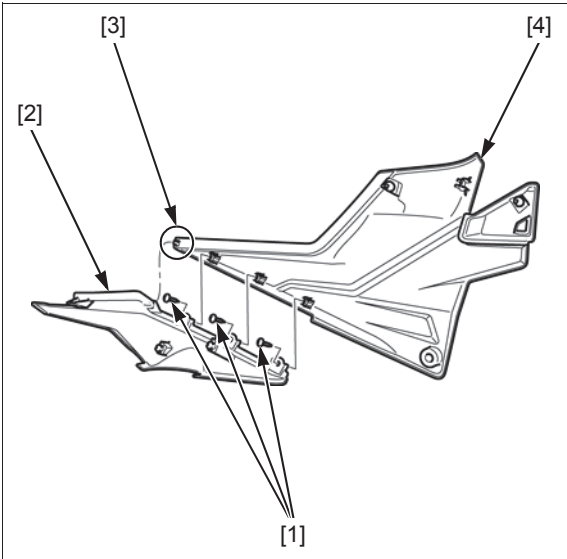
Side cover mounting screw (6 x 17 mm):
5 N·m (0.5 kgf·m, 3.7 lbf·ft)



DISASSEMBLY/ASSEMBLY

Remove the screws [1] and side cover B [2] by releasing its tabs [3] from the slot of the side cover [4].

Assembly is in the reverse order of disassembly.



SEAT

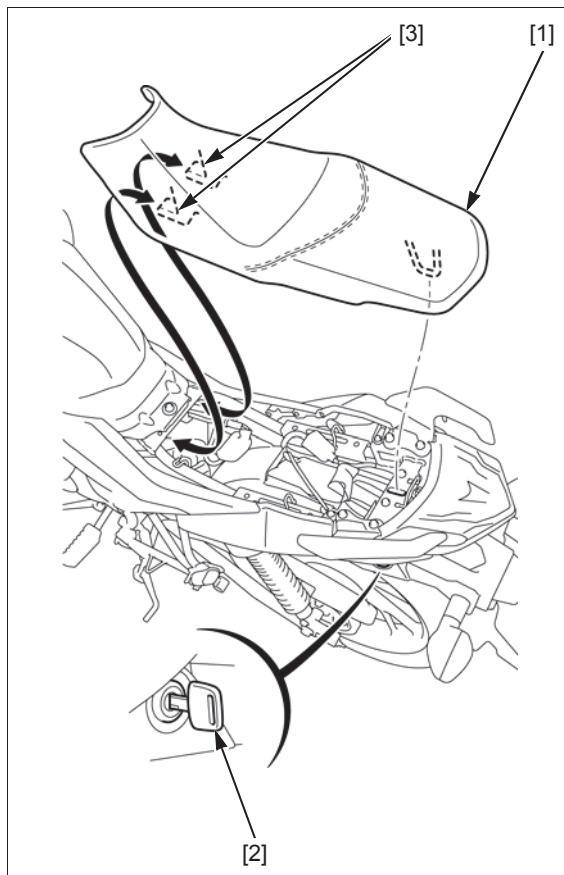
REMOVAL/INSTALLATION

Unlock the seat [1] using the ignition key [2].

Pull the seat back and remove it.

Install the seat while inserting its hooks [3] into the retainers on the frame.

Push the seat forward, then down to lock it.



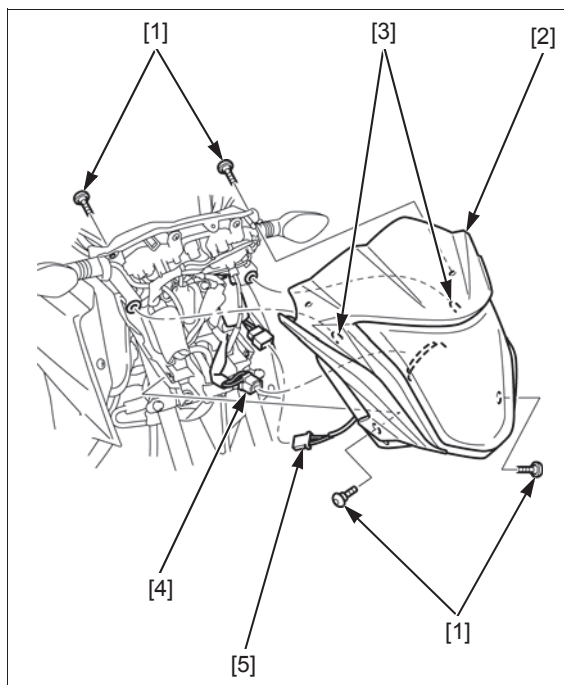
FRONT VISOR

REMOVAL/INSTALLATION

Remove the screws [1] and front visor [2] by releasing its bosses [3].

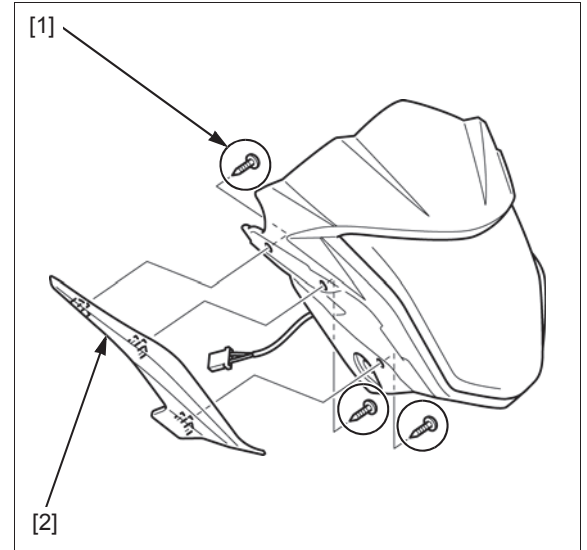
Disconnect the headlight 3P connector [4] and position light 3P connector [5].

Installation is in the reverse order of removal.



DISASSEMBLY/ASSEMBLY

Remove the screws [1] and front garnish [2].
 Assembly is in the reverse order of disassembly.



HEADLIGHT REAR COVER

Remove the front visor (page 24-18).

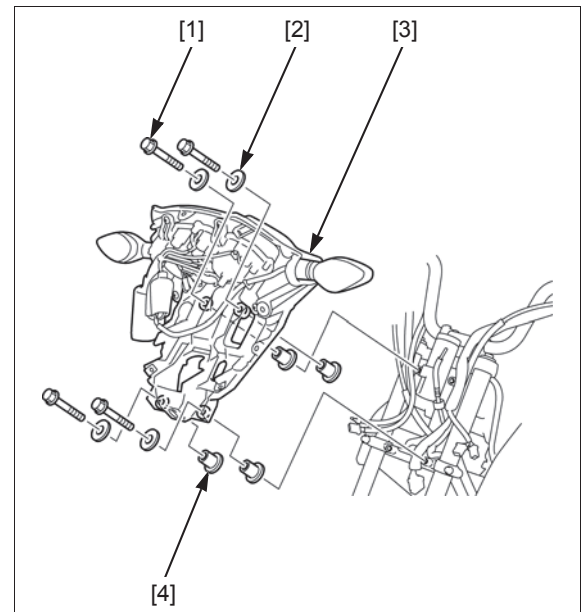
Disconnect the following:

- Speedometer 9P connector
- Speedometer 9P (Black) connector
- Ignition switch 2P connector
- Left handlebar switch 4P connector
- Left handlebar switch 6P connector
- Right handlebar switch 3P (Green) connector
- Front turn signal light wire connectors
- Front brake light switch wire connectors
- Speedometer cable

Remove the following:

- Bolts [1]
- Washers [2]
- Headlight rear cover assembly [3]
- Collars [4]

Installation is in the reverse order of removal.



SHROUD

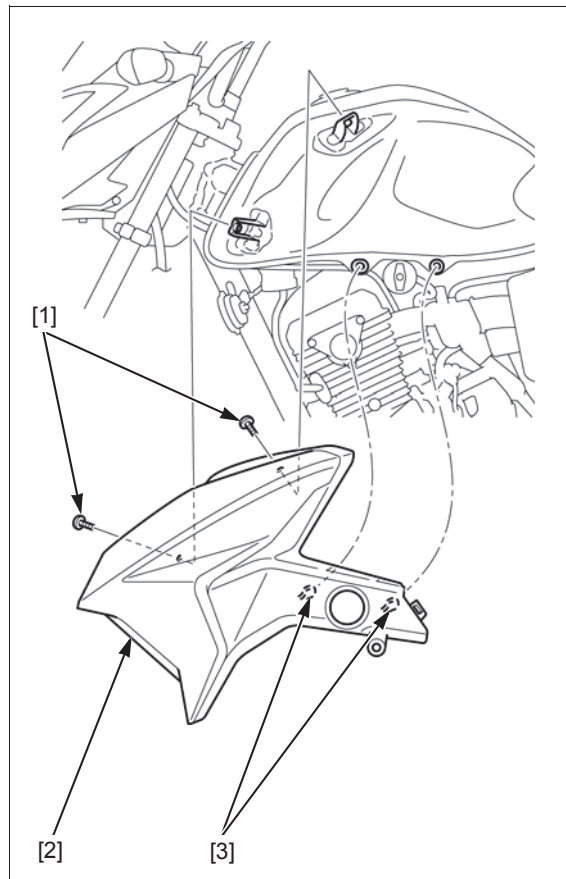
REMOVAL/INSTALLATION

Remove the side cover (page 24-17).

Remove the bolts [1] and shroud [2] by releasing its bosses [3] from the grommets.

Installation is in the reverse order of removal.

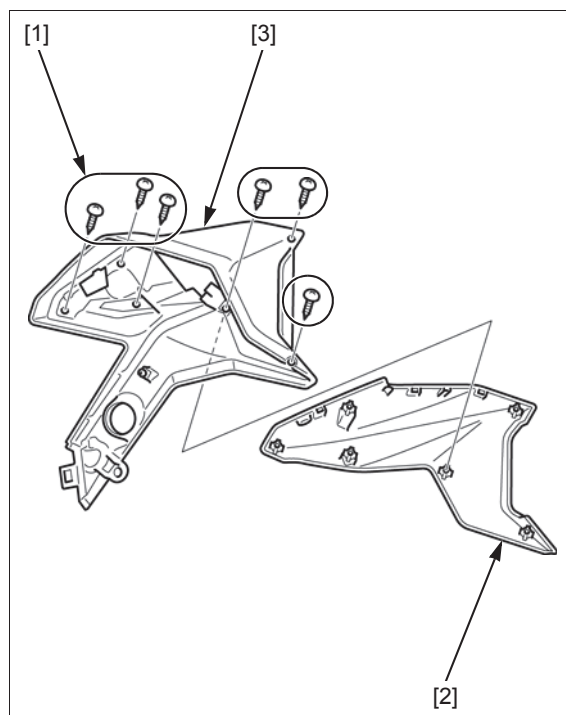
TORQUE: 5 N·m (0.5 kgf·m, 3.7 lbf·ft)



DISASSEMBLY/ASSEMBLY

Remove the screws [1] and inner shroud [2] from the outer shroud [3].

Assembly is in the reverse order of disassembly.

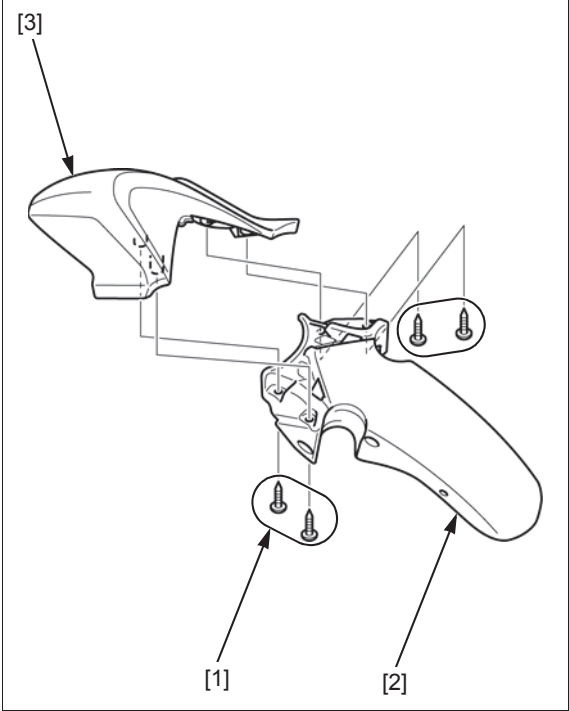


FRONT FENDER

DISASSEMBLY/ASSEMBLY

Remove the screws [1] and front fender B [2] from the front fender A [3].

Assembly is in the reverse order of disassembly.



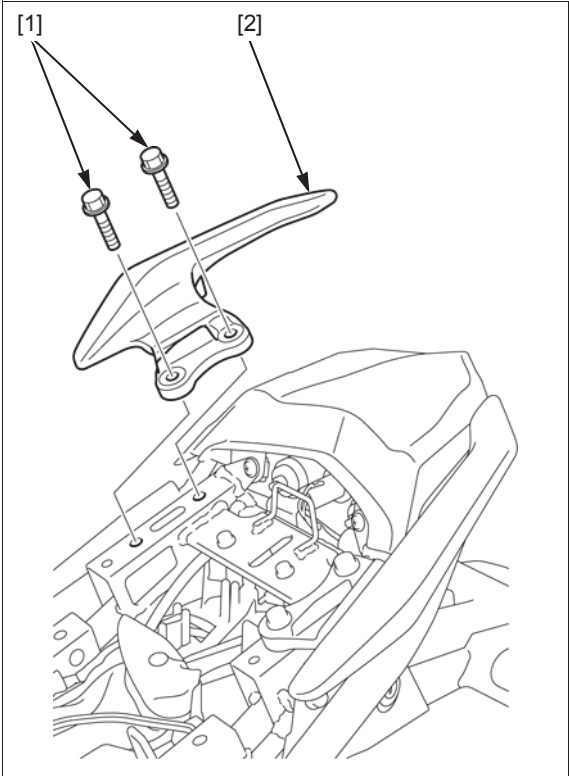
GRAB RAIL

REMOVAL/INSTALLATION

Remove the seat (page 24-18).

Remove the bolts [1] and grab rail [2].

Installation is in the reverse order of removal.



REAR CENTER COWL

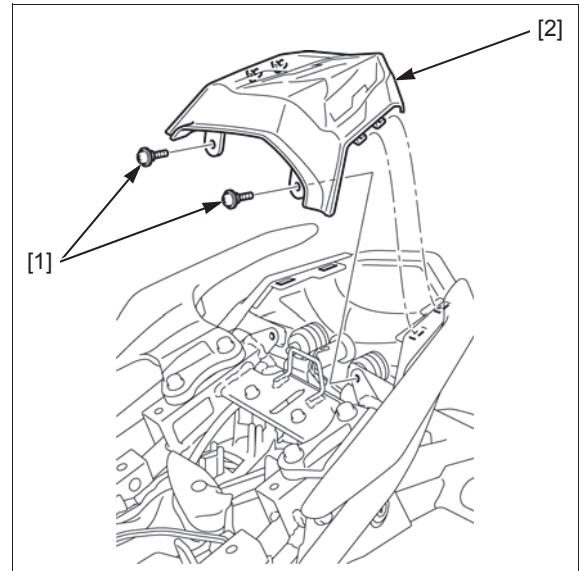
REMOVAL/INSTALLATION

Remove the seat (page 24-18).

Remove the screws [1] and rear center cowl [2].

Installation is in the reverse order of removal.

TORQUE: 4.3 N·m (0.4 kgf·m, 3.2 lbf·ft)



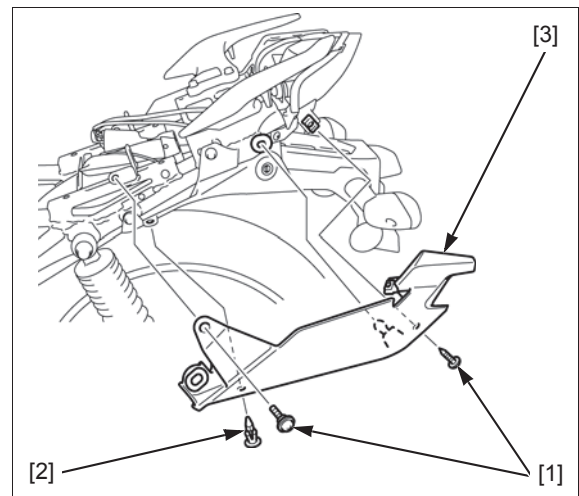
SIDE COWL

REMOVAL/INSTALLATION

Remove the following:

- Side cover (page 24-17)
- Rear center cowl (page 24-22)
- Screws [1]
- Clip [2]
- Side cowl [3]

Installation is in the reverse order of removal.



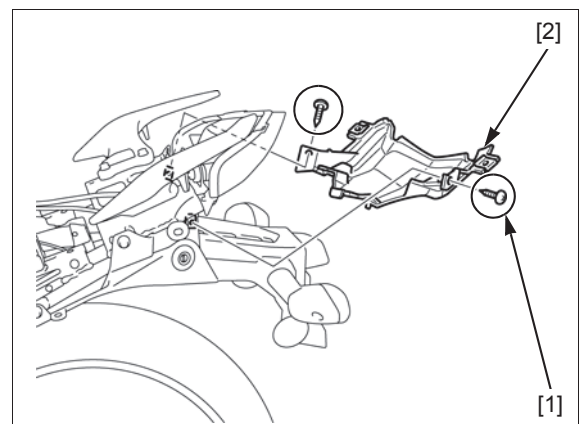
TAILLIGHT COVER

REMOVAL/INSTALLATION

Remove the side cowl (page 24-22).

Remove the screws [1] and taillight cover [2].

Installation is in the reverse order of removal.



REAR FENDER

REMOVAL/INSTALLATION

Remove the taillight cover (page 24-22).

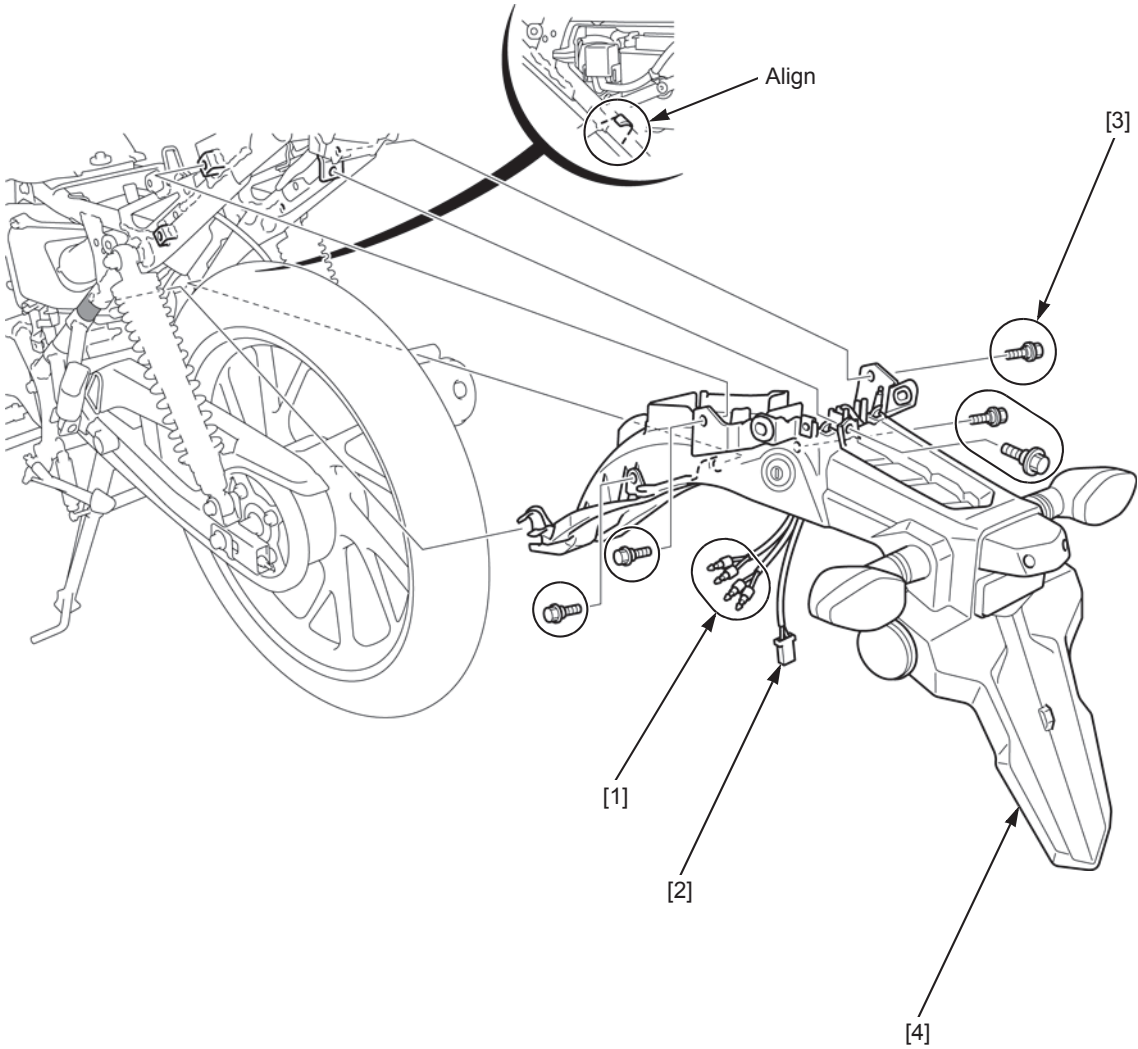
Disconnect the following:

- Brake/taillight 3P connector (page 24-39)
- Rear turn signal light wire connectors [1]
- License light 2P (Black) connector [2]

Remove the bolts [3] and rear fender [4].

NOTE:

- Install the rear fender by aligning its right side hook with the slot.



DISASSEMBLY/ASSEMBLY

Remove the following:

- Rear turn signal light mounting nuts [1]
- Turn signal light plates [2]
- Rear turn signal lights [3]
- Rear reflector mounting nut [4]
- Rear reflector [5]
- License light mounting nuts [6]
- License light [7]
- Clip [8]
- Seat lock [9]

CL type only: Remove the nuts [10] and side reflectors [11].
Assembly is in the reverse order of disassembly.

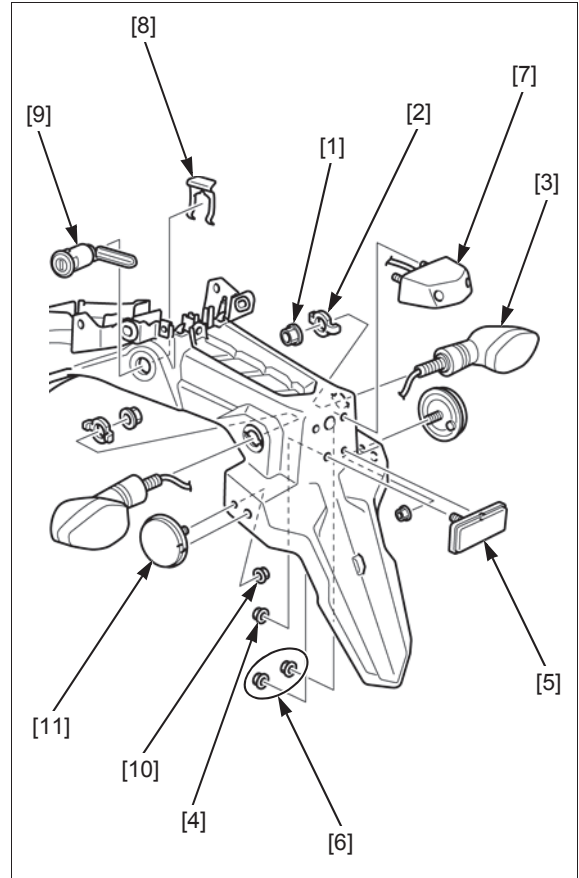
TORQUE:

Rear side reflector mounting nut:

9 N·m (0.9 kgf·m, 6.6 lbf·ft)

Rear reflector mounting nut:

6 N·m (0.6 kgf·m, 4.4 lbf·ft)



EXHAUST PIPE/MUFFLER

DISASSEMBLY/ASSEMBLY

Remove the following:

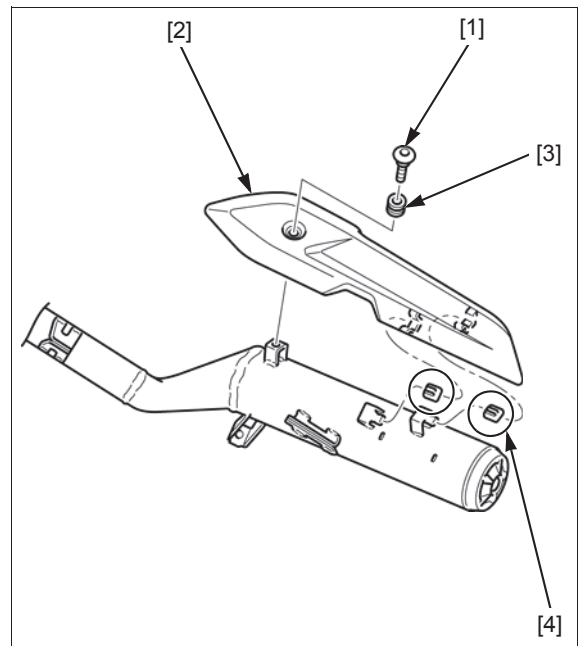
- Screw [1]
- Muffler cover [2]
- Muffler cover mounting rubber [3]
- Muffler cover cushion rubbers [4]

Assembly is in the reverse order of disassembly.

TORQUE:

Muffler cover mounting screw:

9 N·m (0.9 kgf·m, 6.6 lbf·ft)



MAINTENANCE SCHEDULE

Perform the Pre-ride inspection in the Owner's Manual at each scheduled maintenance period.

I: Inspect and Clean, Adjust, Lubricate or Replace if necessary. C: Clean. R: Replace. A: Adjust. L: Lubricate.

The following items require some mechanical knowledge. Certain items (particularly those marked * and **) may require more technical information and tools. Consult a dealer.

ITEMS	NOTE	FREQUENCY (NOTE 1)									ANNUAL CHECK	REGULAR REPLACE	REFER TO PAGE	
		x 1,000 km	1	4	8	12	16	20	24					
		x 1,000 mi	0.6	2.5	5	7.5	10	12.5	15					
* FUEL LINE				I	I	I	I	I	I	I			-	
* FUEL STRAINER SCREEN				C	C	C	C	C	C	C			3-3	
* THROTTLE OPERATION				I	I	I	I	I	I	I			3-3	
* AIR CLEANER	NOTE 2							R					3-4	
CRANKCASE BREATHER	NOTE 3			C	C	C	C	C	C	C	C		3-5	
SPARK PLUG				I	R	I	R	I	R				3-5	
* VALVE CLEARANCE			I	I	I	I	I	I	I				3-6	
ENGINE OIL			R	R	R	R	R	R	R	R			3-7	
** ENGINE OIL STRAINER SCREEN						C			C				3-8	
** ENGINE OIL CENTRIFUGAL FILTER						C			C				3-8	
* ENGINE IDLE SPEED			I	I	I	I	I	I	I	I			3-8	
* SECONDARY AIR SUPPLY SYSTEM							I						23-31	
DRIVE CHAIN			Every 500 km (300 mi) I, L											3-9
BATTERY				I	I	I	I	I	I	I			3-11	
BRAKE FLUID	NOTE 4			I	I	I	I	I	I	I		2 YEARS	24-26	
BRAKE SHOES/PADS WEAR				I	I	I	I	I	I	I			3-12 24-26	
BRAKE SYSTEM			I	I	I	I	I	I	I	I			24-26	
BRAKE LIGHT SWITCH				I	I	I	I	I	I	I			3-13	
HEADLIGHT AIM				I	I	I	I	I	I	I			3-14	
CLUTCH SYSTEM			I	I	I	I	I	I	I	I			3-14	
SIDESTAND				I	I	I	I	I	I	I			3-15	
* SUSPENSION				I	I	I	I	I	I	I			3-15	
* NUTS, BOLTS, FASTENERS			I		I		I		I				3-15	
** WHEELS/TIRES				I	I	I	I	I	I	I			3-16	
** STEERING HEAD BEARINGS			I			I			I				3-16	

* Should be serviced by a dealer, unless the owner has proper tools and service data and is mechanically qualified.

** In the interest of safety, we recommend these items be serviced only by a dealer.

Honda recommends that a dealer should road test the motorcycle after each periodic maintenance is carried out.

NOTES:

1. At higher odometer reading, repeat at the frequency interval established here.
2. Service more frequently when riding in unusually wet or dusty areas.
3. Service more frequently when riding in rain or at full throttle.
4. Replacement requires mechanical skill.

BRAKE FLUID

NOTICE

- Do not mix different types of fluid, as they are not compatible with each other.
- Do not allow foreign material to enter the system when filling the reservoir.
- When the fluid level is low, check the brake pads for wear (page 24-26).
- Avoid spilling fluid on painted, plastic or rubber parts. Place a shop towel over these parts whenever the system is serviced.

A low fluid level may be due to wear of the brake pads. If the brake pads are worn and caliper pistons are pushed out, this accounts for a low fluid level. If the brake pads are not worn and fluid level is low, check the entire system for leaks (page 24-26).

Turn the handlebar to the left side so the reservoir is level and check the fluid level through the sight glass [1].

If the level is near the lower level line [2], check the brake pad wear (page 24-26).

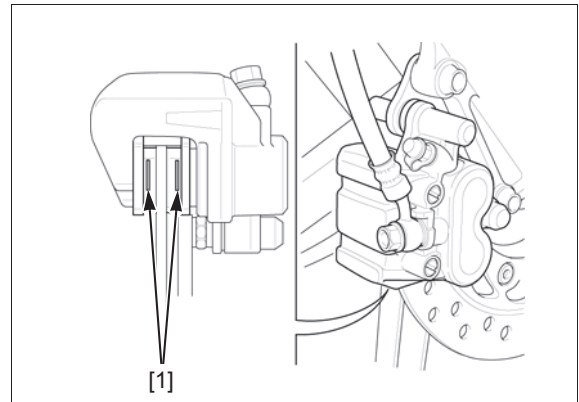


BRAKE PAD WEAR

Check the brake pad for wear.

Replace the brake pads if either pad is worn to the wear limit groove [1].

Refer to front brake pad replacement (page 24-33).



BRAKE SYSTEM

HYDRAULIC SYSTEM INSPECTION

Firmly apply the brake lever or pedal, and check that no air has entered the system.

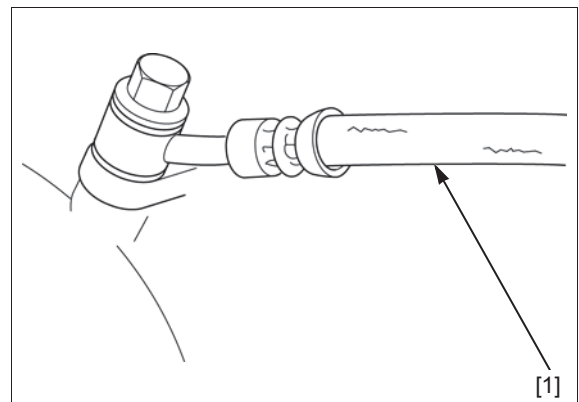
If the lever or pedal feels soft or spongy when operated, bleed the air from the system.

For brake air bleeding (page 24-31).

Inspect the brake hose [1] and fittings for deterioration, cracks and signs of leakage.

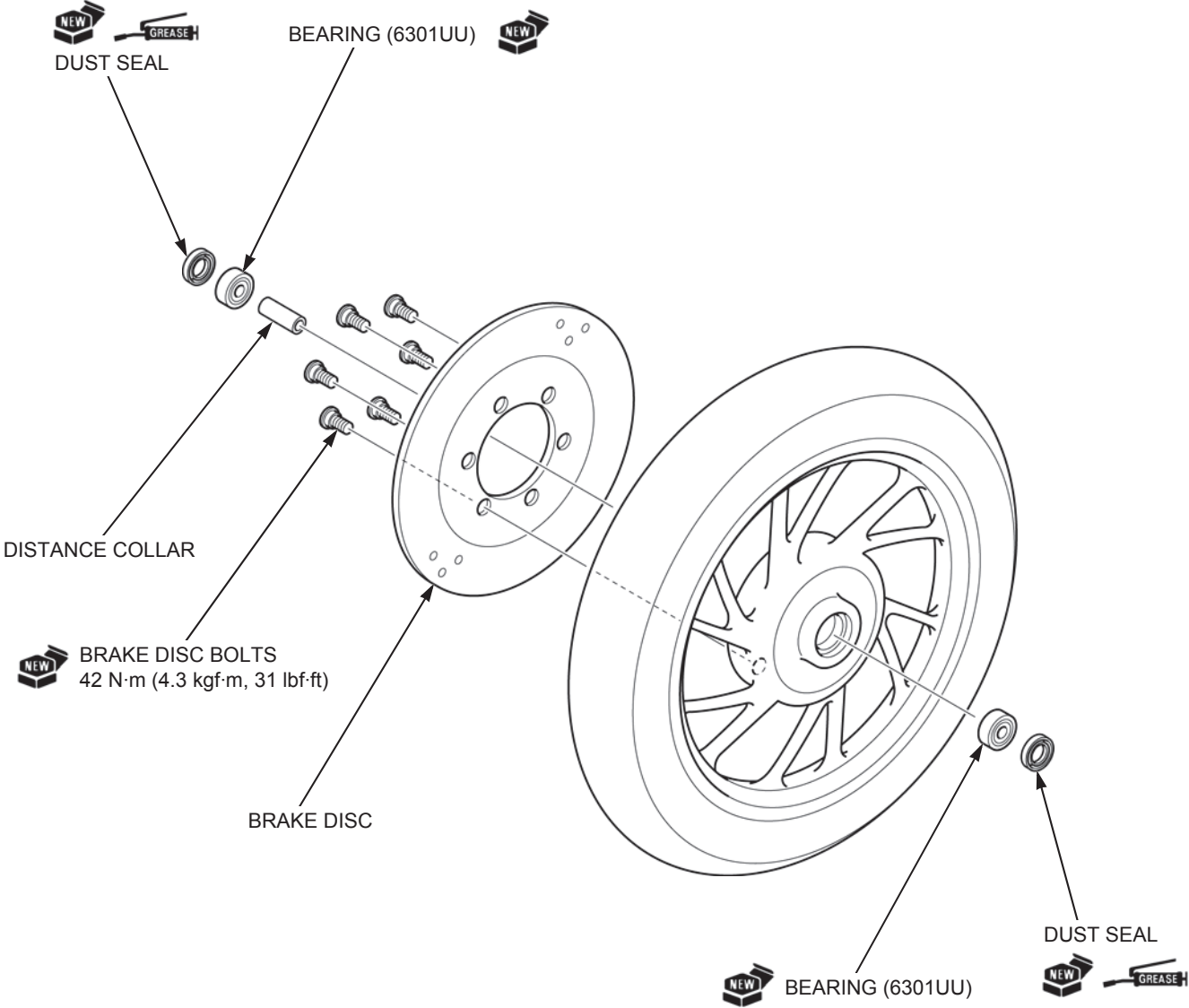
Tighten any loose fittings.

Replace hoses and fittings as required.



FRONT WHEEL

DISASSEMBLY/ASSEMBLY



BEARING REPLACEMENT

REMOVAL

BEARING (6301UU)

TOOLS:

- Bearing remover head, 12 mm 07746-0050300
- Bearing remover shaft 07746-0050100

INSTALLATION

NOTE:

1. Drive in a new right side bearing squarely until it is fully seated.
2. Install the distance collar.
3. Drive in a new left side bearing until it is fully seated to the distance collar.

BEARING (6301UU)

TOOLS:

- Driver 07749-0010000
- Attachment, 37 x 40 mm 07746-0010200
- Pilot, 12 mm 07746-0040200

HANDLEBAR WEIGHT

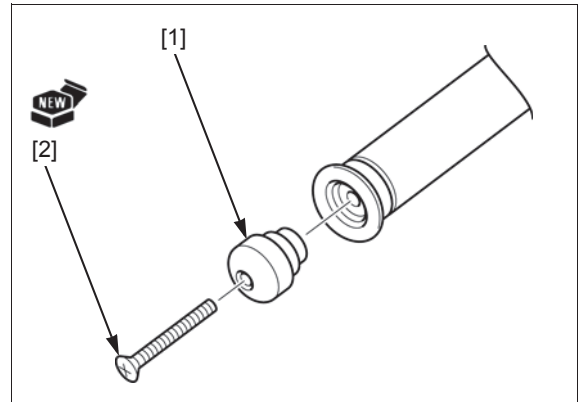
REMOVAL/INSTALLATION

Hold the handlebar weight [1] and remove the handlebar weight mounting screw [2] and handlebar weight.

Installation is in the reverse order of removal.

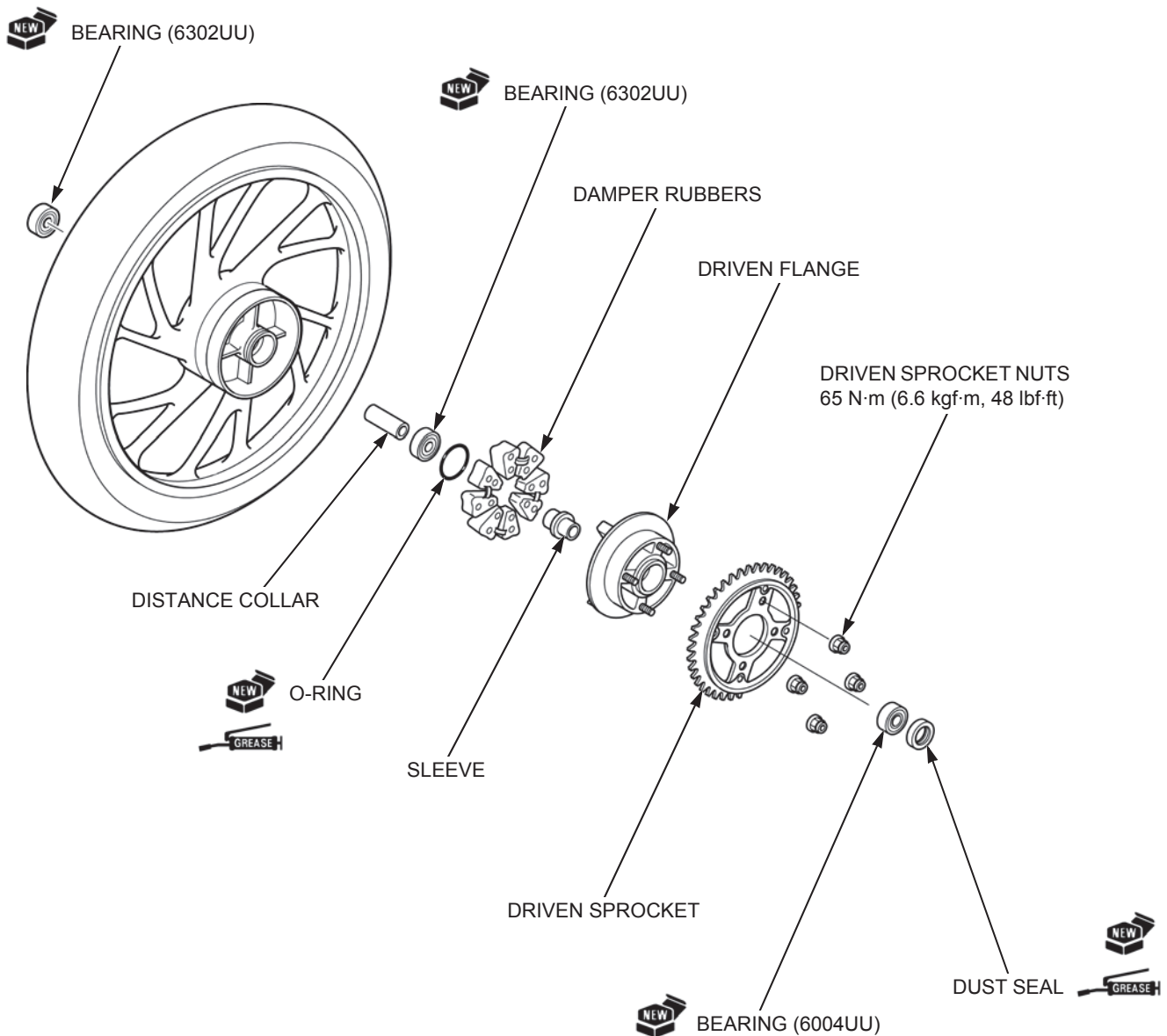
NOTE:

- Replace the handlebar weight mounting screw with new ones.



REAR WHEEL

DISASSEMBLY/ASSEMBLY



BEARING REPLACEMENT

REMOVAL

BEARING (6302UU)

TOOLS:

Bearing remover head, 15 mm	07746-0050400
Bearing remover shaft	07746-0050100

INSTALLATION

NOTE:

1. Drive in a new right side bearing squarely until it is fully seated.
2. Install the distance collar.
3. Drive in a new left side bearing until it is fully seated to the distance collar.

BEARING (6302UU)

TOOLS:

Driver	07749-0010000
Attachment, 42 x 47 mm	07746-0010300
Pilot, 15 mm	07746-0040300

BEARING (6004UU)

TOOLS:

Driver	07749-0010000
Attachment, 42 x 47 mm	07746-0010300
Pilot, 20 mm	07746-0040500

BRAKE SYSTEM SERVICE INFORMATION

GENERAL

⚠ CAUTION

Frequent inhalation of brake pad dust, regardless of material composition, could be hazardous to your health.

- Avoid breathing dust particles.
- Never use an air hose or brush to clean brake assemblies. Use an OSHA-approved vacuum cleaner.

NOTICE

Spilled brake fluid will severely damage the plastic parts and painted surfaces. It is also harmful to some rubber parts. Be careful whenever you remove the reservoir cap; make sure the master cylinder reservoir is horizontal first.

- A contaminated brake disc or pad reduces stopping power. Discard contaminated pads and clean a contaminated disc with a high quality brake degreasing agent.
- Never allow contaminants (dirt, water, etc.) to enter an open reservoir.
- Once the hydraulic system has been opened, or if the brake feels spongy, the system must be bled.
- Always use fresh DOT 3 or DOT 4 brake fluid from a sealed container when servicing the system. Do not mix different types of fluid as they may not be compatible.
- Always check brake operation before riding the motorcycle.

DISC BRAKE TROUBLESHOOTING

Brake lever soft or spongy

- Air in hydraulic system
- Leaking hydraulic system
- Contaminated brake pad/disc
- Worn caliper piston seal
- Worn master cylinder piston cups
- Worn brake pad/disc
- Contaminated caliper
- Contaminated master cylinder
- Caliper not sliding properly
- Low brake fluid level
- Clogged fluid passage
- Warped/deformed brake disc
- Sticking/worn caliper piston
- Sticking/worn master cylinder piston
- Bent brake lever

Brake lever hard

- Clogged/restricted brake system
- Sticking/worn caliper piston
- Caliper not sliding properly
- Sticking/worn master cylinder piston
- Bent brake lever

Brake drags

- Contaminated brake pad/disc
- Misaligned wheel
- Badly worn brake pad/disc
- Warped/deformed brake disc
- Caliper not sliding properly
- Clogged/restricted fluid passage
- Sticking caliper piston

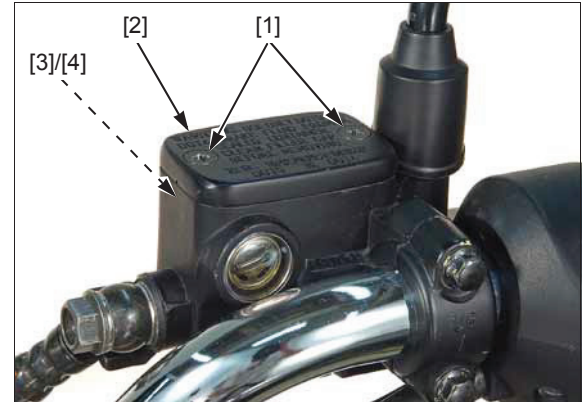
BRAKE FLUID REPLACEMENT/AIR BLEEDING

BRAKE FLUID DRAINING

Turn the handlebar until the reservoir is parallel to the ground.

Remove the following:

- Screws [1]
- Reservoir cap [2]
- Set plate [3]
- Diaphragm [4]

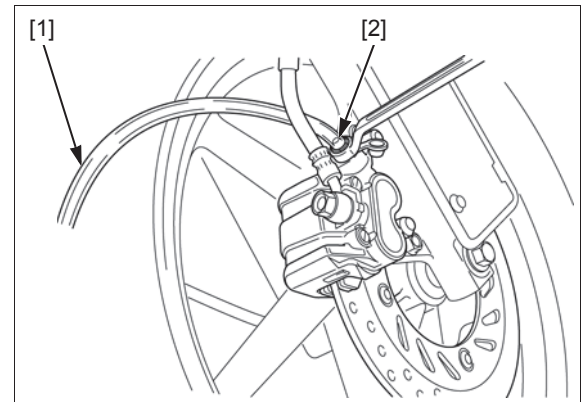


Connect a bleed hose [1] to the bleed valve [2].

Loosen the bleed valve and pump the brake lever until no more fluid flows out of the bleed valve.

Tighten the bleed valve to the specified torque.

TORQUE: 8 N·m (0.8 kgf·m, 5.9 lbf·ft)



BRAKE FLUID FILLING/AIR BLEEDING

Fill the reservoir to the upper level line with DOT 3 or DOT 4 brake fluid from a sealed container.

Connect a commercially available brake bleeder [1] to the bleed valve [2].

Operate the brake bleeder and loosen the bleed valve.

If an automatic refill system is not used, add fluid when the fluid level in the reservoir is low.

NOTE:

- Check the fluid level often while bleeding the brake to prevent air from being pumped into the system.
- When using a brake bleeding tool, follow the manufacturer's operating instructions.

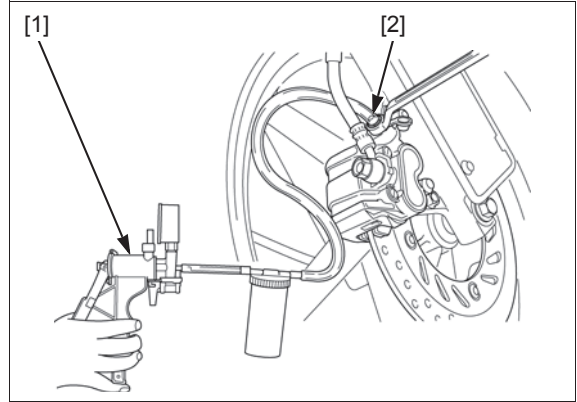
Perform the bleeding procedure until the system is completely flushed/bled.

Close the bleed valve and operate the brake lever. If it still feels spongy, bleed the system again.

After bleeding the system completely, tighten the bleed valve to the specified torque.

TORQUE: 8 N·m (0.8 kgf·m, 5.9 lbf·ft)

Fill the reservoir to the upper level line with DOT 3 or DOT 4 brake fluid.



If a brake bleeder is not available, use the following procedure:

Fill the reservoir to the upper level line [1] with DOT 3 or DOT 4 brake fluid.

Pump up the system pressure with the brake lever/pedal until the lever/pedal resistance is felt.

Connect a bleed hose to the bleed valve.

Do not release the lever or pedal until the bleed valve has been closed.

1. Squeeze the brake lever, open the bleed valve 1/4 turn and then close it.
2. Release the brake lever slowly and wait several seconds after it reaches the end of its travel.
3. Repeat the steps 1 and 2 until there are no air bubbles in the bleed hose.



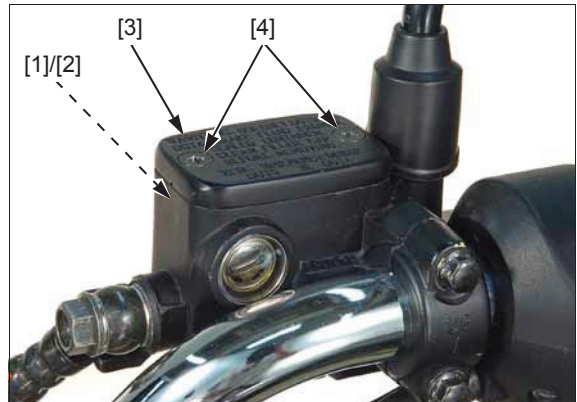
After bleeding the system completely, tighten the bleed valve to the specified torque.

TORQUE: 8 N·m (0.8 kgf·m, 5.9 lbf·ft)

Fill the reservoir to the upper level line with DOT 3 or DOT 4 brake fluid.

Install the diaphragm [1], set plate [2] and reservoir cap [3] and tighten the screws [4].

TORQUE: 1.5 N·m (0.2 kgf·m, 1.1 lbf·ft)



BRAKE PAD/DISC

NOTE:

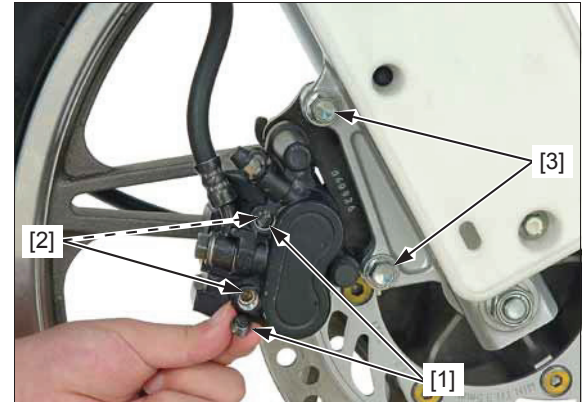
- Always replace the brake pads in pairs to assure even disc pressure.
- Check the brake fluid level in the brake master cylinder reservoir as this operation causes the level to rise.

BRAKE PAD REPLACEMENT

Remove the pad pin plugs [1].

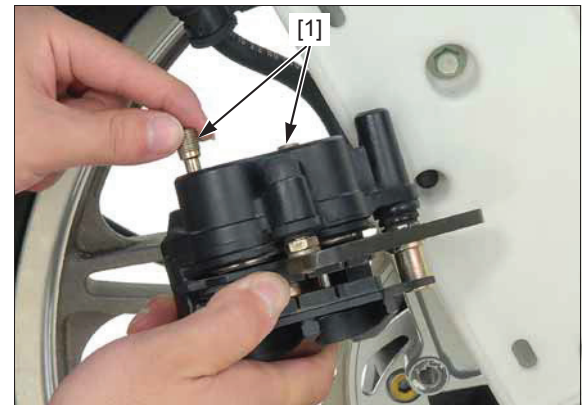
Loosen the pad pins [2].

Remove the caliper mounting bolts [3] and brake caliper.

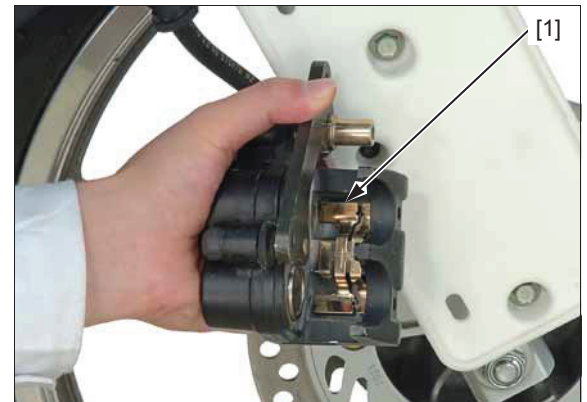


Pull the pad pins [1] out of the caliper while pushing in the pads against the pad spring.

Remove the brake pads.



Make sure the pad spring [1] is installed in position.



CBF125S-J/K ADDENDUM

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

Install new brake pads [1] into the caliper so their ends are positioned onto the bracket as shown.

Install the pad pin [2] by pushing the pads against the pad spring to align the pad pin holes of the pads and caliper.



Install the brake caliper and new mounting bolts [1].

Tighten the brake caliper mounting bolts and pad pins [2] to the specified torque.

TORQUE:

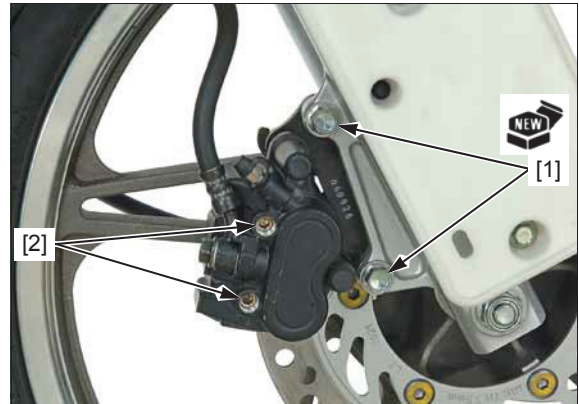
Brake caliper mounting bolt:

26 N·m (2.7 kgf·m, 19 lbf·ft)

Pad pin:

18 N·m (1.8 kgf·m, 13 lbf·ft)

Operate the brake lever to seat the caliper pistons against the pads.



Install and tighten the pad pin plugs [1].

TORQUE: 2.5 N·m (0.3 kgf·m, 1.8 lbf·ft)



BRAKE DISC INSPECTION

Visually inspect the brake disc for damage or cracks.

Measure the brake disc according to BRAKE SYSTEM SPECIFICATIONS (page 24-6) and replace if necessary.

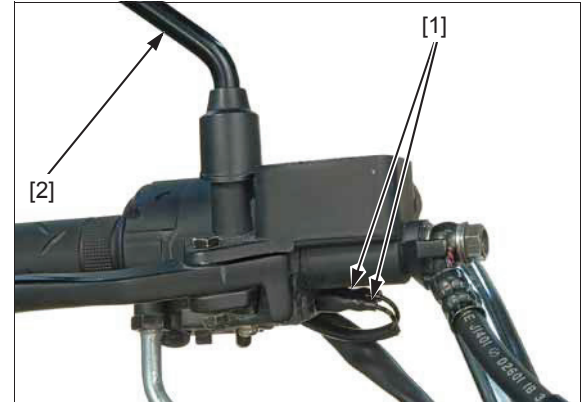
MASTER CYLINDER

REMOVAL/INSTALLATION

Drain the brake fluid from the hydraulic system (page 24-31).

Remove the following:

- Brake light switch connectors [1]
- Rearview mirror [2]



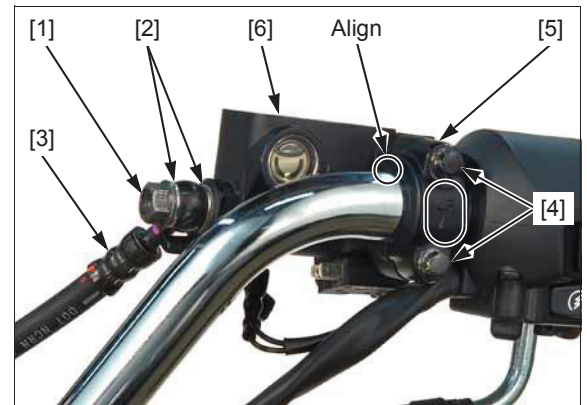
When removing the oil bolt, cover the end of the hose to prevent contamination.

- Oil bolt [1]
- Sealing washers [2]
- Brake hose [3]
- Bolts [4]
- Holder [5]
- Master cylinder [6]

Installation is in the reverse order of removal.

NOTE:

- Replace the sealing washers with new ones.
- Align the edge of the master cylinder with the punch mark on the handlebar.
- Install the master cylinder and holder with its "UP" mark facing up.
- Tighten the upper bolt first, then tighten the lower bolt.



TORQUE:

Master cylinder holder bolt:

12 N·m (1.2 kgf·m, 9 lbf·ft)

Oil bolt:

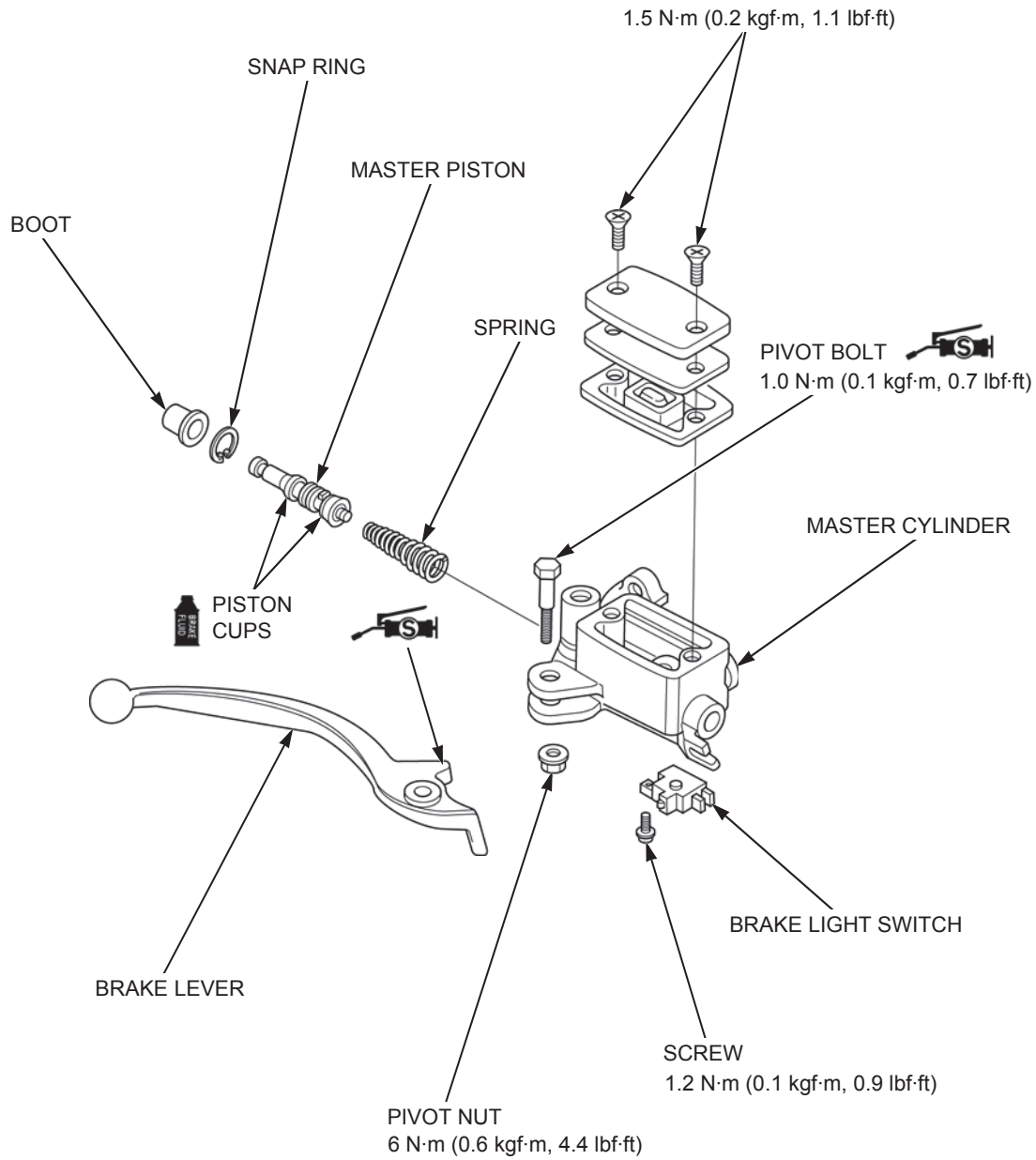
34 N·m (3.5 kgf·m, 25 lbf·ft)

Mirror nut:

34 N·m (3.5 kgf·m, 25 lbf·ft)

Fill and bleed the hydraulic system (page 24-31).

DISASSEMBLY/ASSEMBLY



BRAKE CALIPER

REMOVAL/INSTALLATION

Drain the brake fluid from the hydraulic system (page 24-31).

When removing the oil bolt, cover the end of the hose to prevent contamination.

Remove the following:

- Oil bolt [1]
- Sealing washers [2]
- Brake hose [3]
- Brake caliper mounting bolts [4]
- Brake caliper [5]

Installation is in the reverse order of removal.

NOTE:

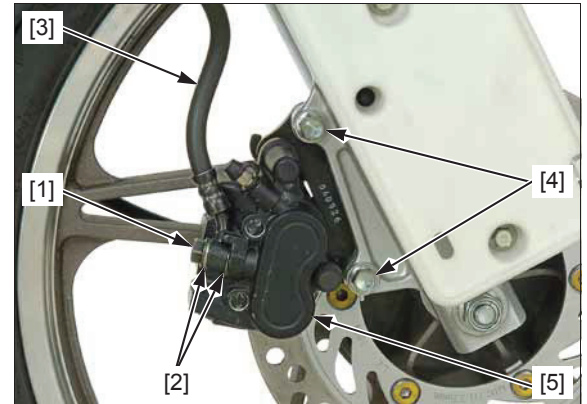
- Replace the brake caliper mounting bolts and sealing washers with new ones.

TORQUE:

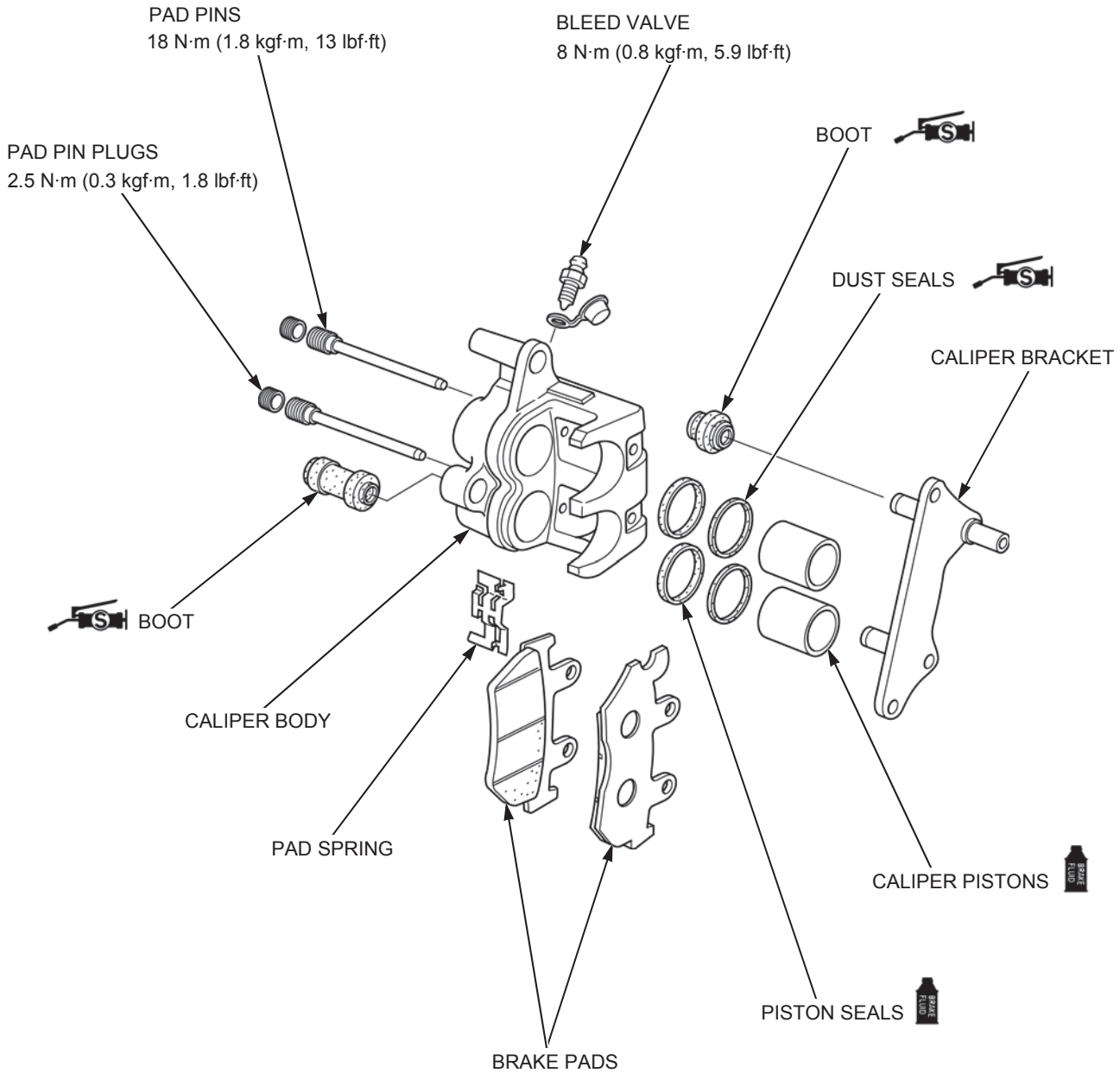
Brake caliper mounting bolt:
26 N·m (2.7 kgf·m, 19 lbf·ft)

Oil bolt:
34 N·m (3.5 kgf·m, 25 lbf·ft)

Fill and bleed the hydraulic system (page 24-31).



DISASSEMBLY/ASSEMBLY



INSPECTION

Check the following parts for scoring, scratches, deterioration or damage.

- Caliper cylinders
- Caliper pistons

Measure the parts according to BRAKE SYSTEM SPECIFICATIONS (page 24-6) and replace if necessary.

BRAKE/TAILLIGHT

BULB REPLACEMENT

Remove the following:

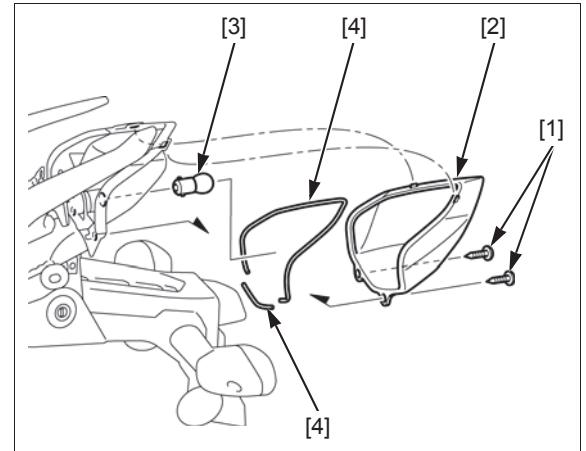
- Rear center cowl (page 24-22)
- Taillight cover (page 24-22)
- Brake/taillight lens mounting screws [1]
- Brake/taillight lens [2]

Push the bulb [3] in, turn it counterclockwise and remove it from the bulb socket.

Make sure the lens packings [4] is installed in position and is in good condition, replace it with a new one if necessary.

Installation is in the reverse order of removal.

TORQUE: 0.85 N·m (0.1 kgf·m, 0.6 lbf·ft)



REMOVAL/INSTALLATION

Remove the following:

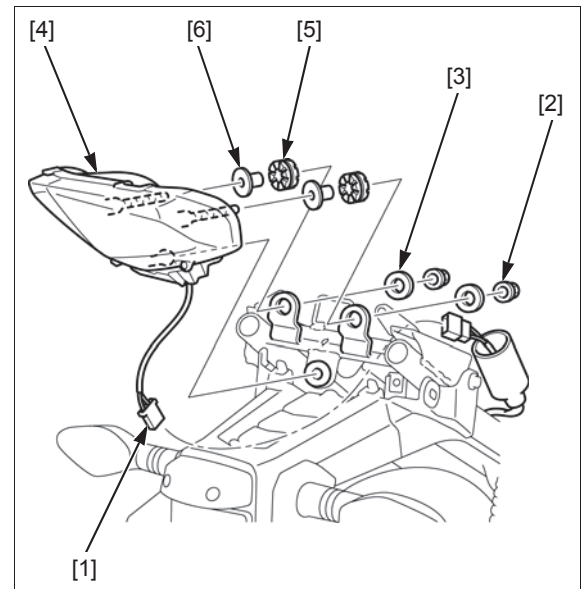
- Rear center cowl (page 24-22)
- Taillight cover (page 24-22)

Disconnect the Brake/taillight 3P connector [1].

Remove the following:

- Nuts [2]
- Washers [3]
- Brake/taillight assembly [4]
- Grommets [5]
- Collars [6]

Installation is in the reverse order of removal.



TURN SIGNAL LIGHT

BULB REPLACEMENT

Remove the screw [1] and turn signal light lens [2].

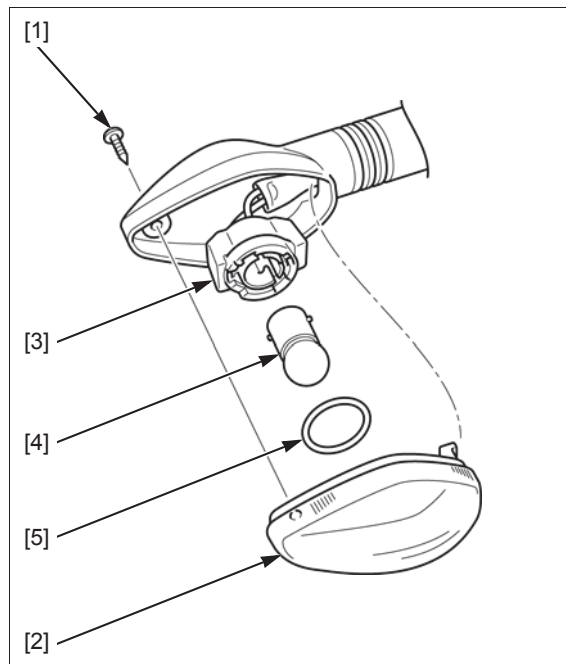
Turn the bulb socket [3] counterclockwise to remove it.

While pushing in, turn the bulb [4] counterclockwise to remove it.

Make sure the lens packing [5] is installed in position and is in good condition, replace it with a new one if necessary.

Installation is in the reverse order of removal.

TORQUE: 0.98 N·m (0.1 kgf·m, 0.7 lbf·ft)



LICENSE LIGHT

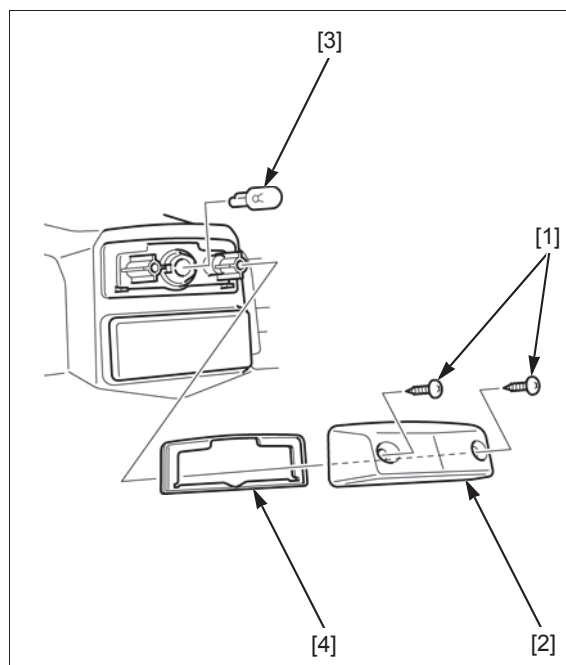
BULB REPLACEMENT

Remove the screws [1], license light lens [2] and bulb [3].

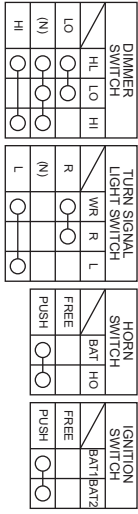
Make sure the lens packing [4] is installed in position and is in good condition, replace it with a new one if necessary.

Installation is in the reverse order of removal.

TORQUE: 0.98 N·m (0.1 kgf·m, 0.7 lbf·ft)



WIRING DIAGRAMS



Bl	Black	Br	Brown
Y	Yellow	O	Orange
Bu	Blue	Lb	Light Blue
G	Green	Lg	Light Green
R	Red	P	Pink
W	White	Gr	Gray

COLOR COMB : GROUND MARKING

