

Section 9

Body and Accessories

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Precautions

Precautions

Precautions for Electrical System

B718H19000001

Refer to “General Precautions in Section 00 (Page 00-1)” and “Precautions for Electrical Circuit Service in Section 00 (Page 00-2)”.

Component Location

Electrical Components Location

B718H19003001

Refer to “Electrical Components Location in Section 0A (Page 0A-8)”.

Wiring Systems

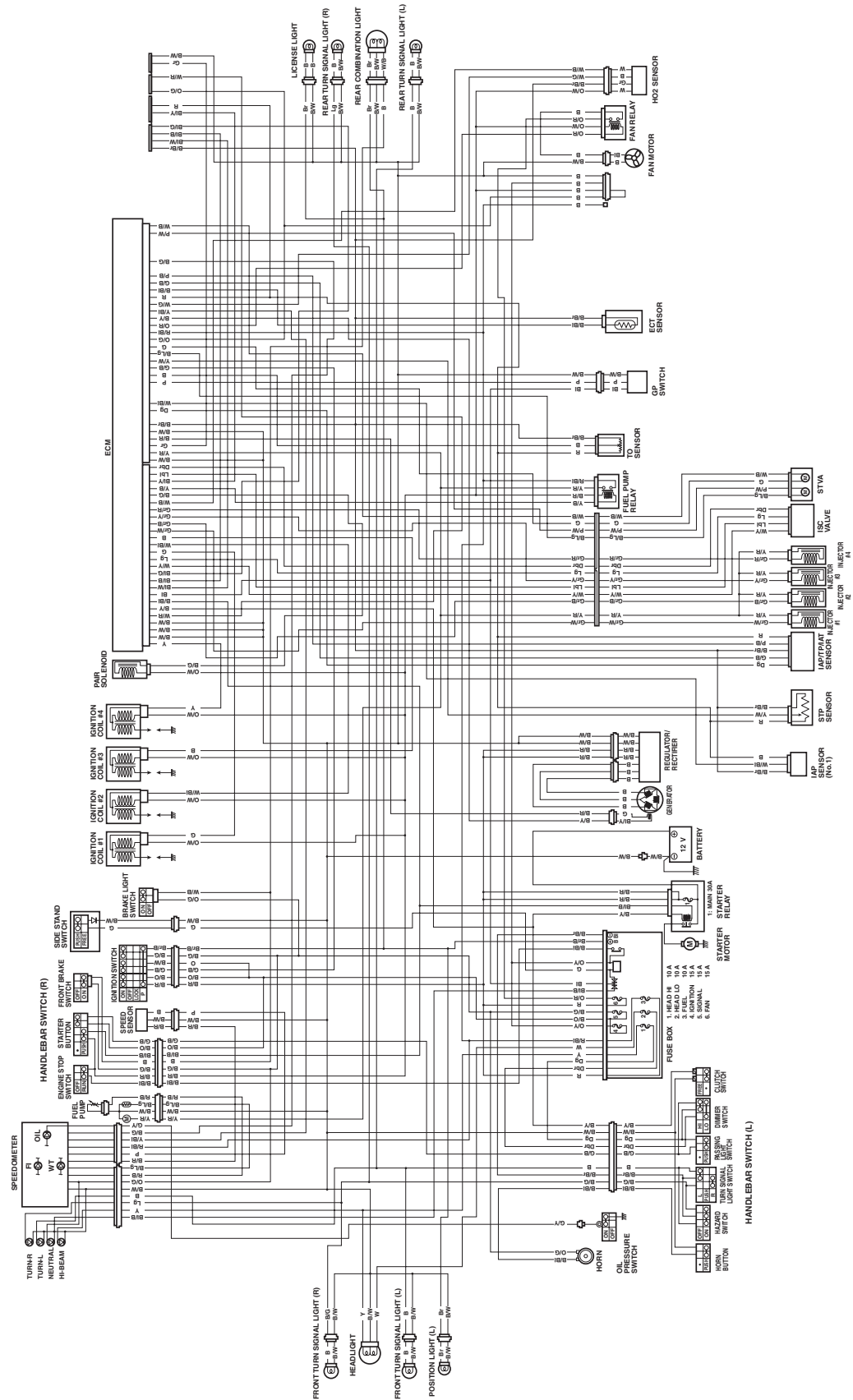
Schematic and Routing Diagram

Wiring Diagram (GSF1250)

B718H19102001

Refer to “Wire Color Symbols in Section 0A (Page 0A-6)”.

For E-02, 19



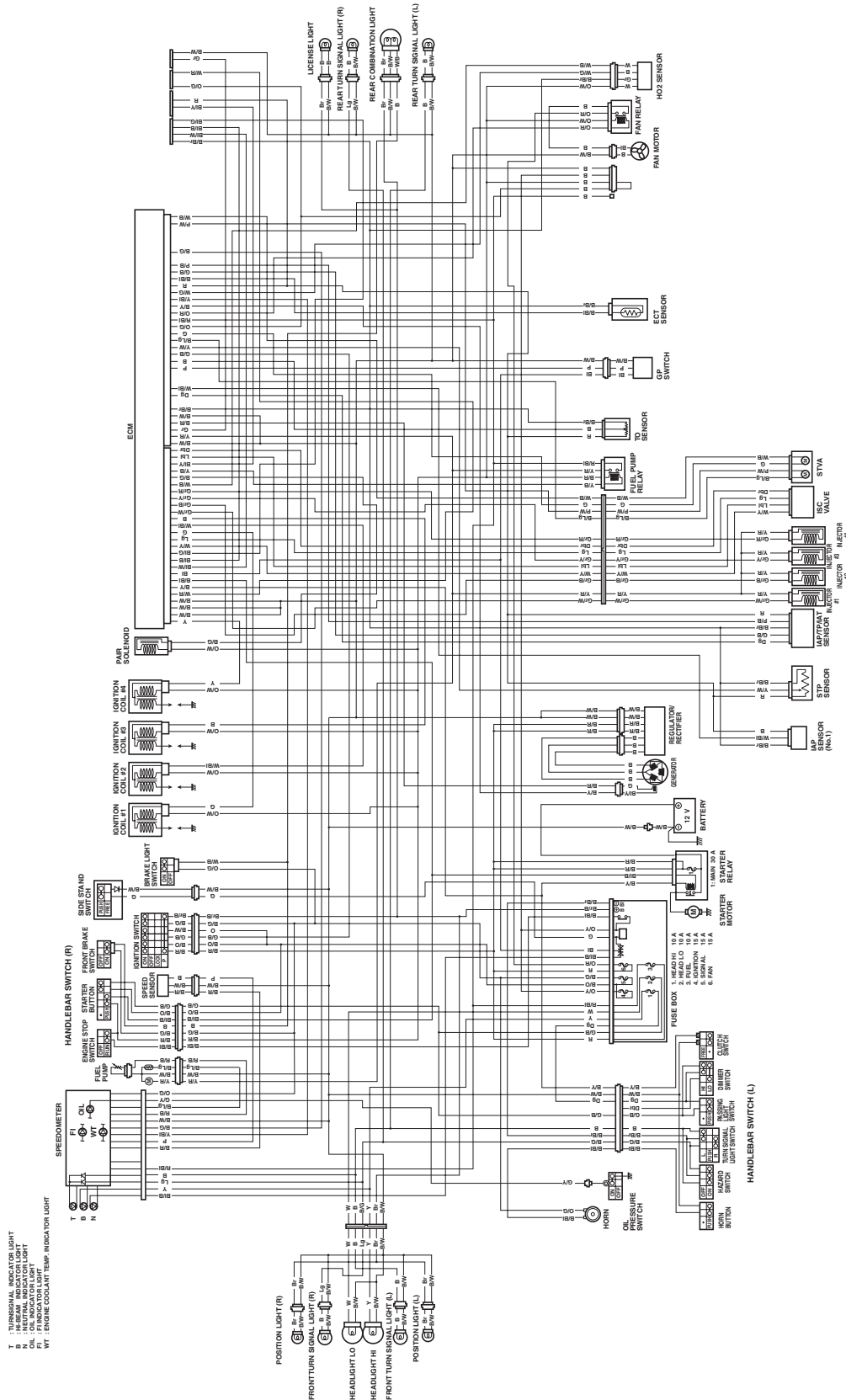
9A-3 Wiring Systems:

Wiring Diagram (GSF1250S)

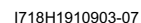
B718H19102004

Refer to "Wire Color Symbols in Section 0A (Page 0A-6)".

For E-02, 19



I718H1910902-08



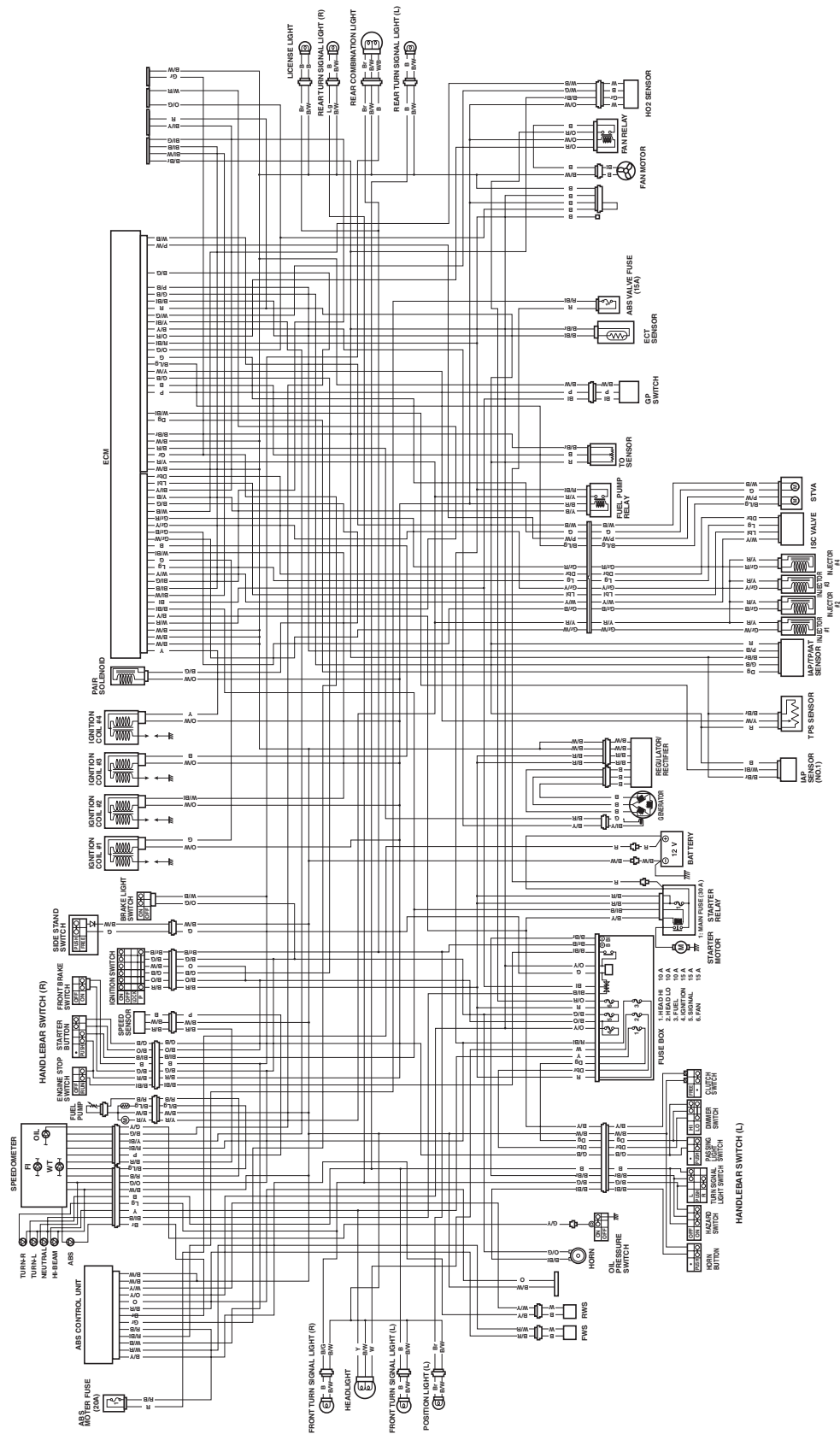
9A-5 Wiring Systems:

Wiring Diagram (GSF1250A)

B718H19102005

Refer to "Wire Color Symbols in Section 0A (Page 0A-6)".

For E-02, 19



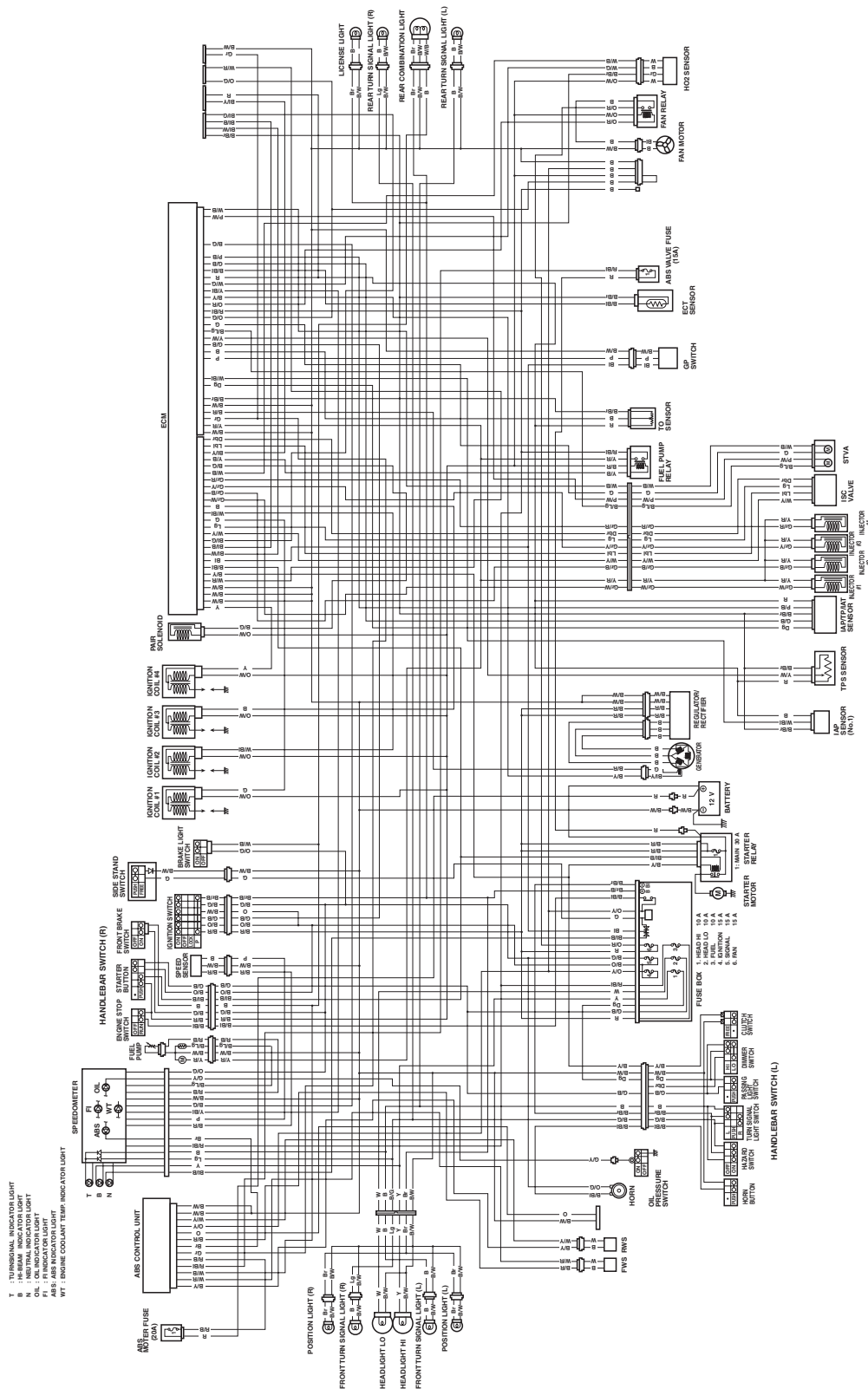
I718H1910905-07

Wiring Diagram (GSF1250SA)

B718H19102006

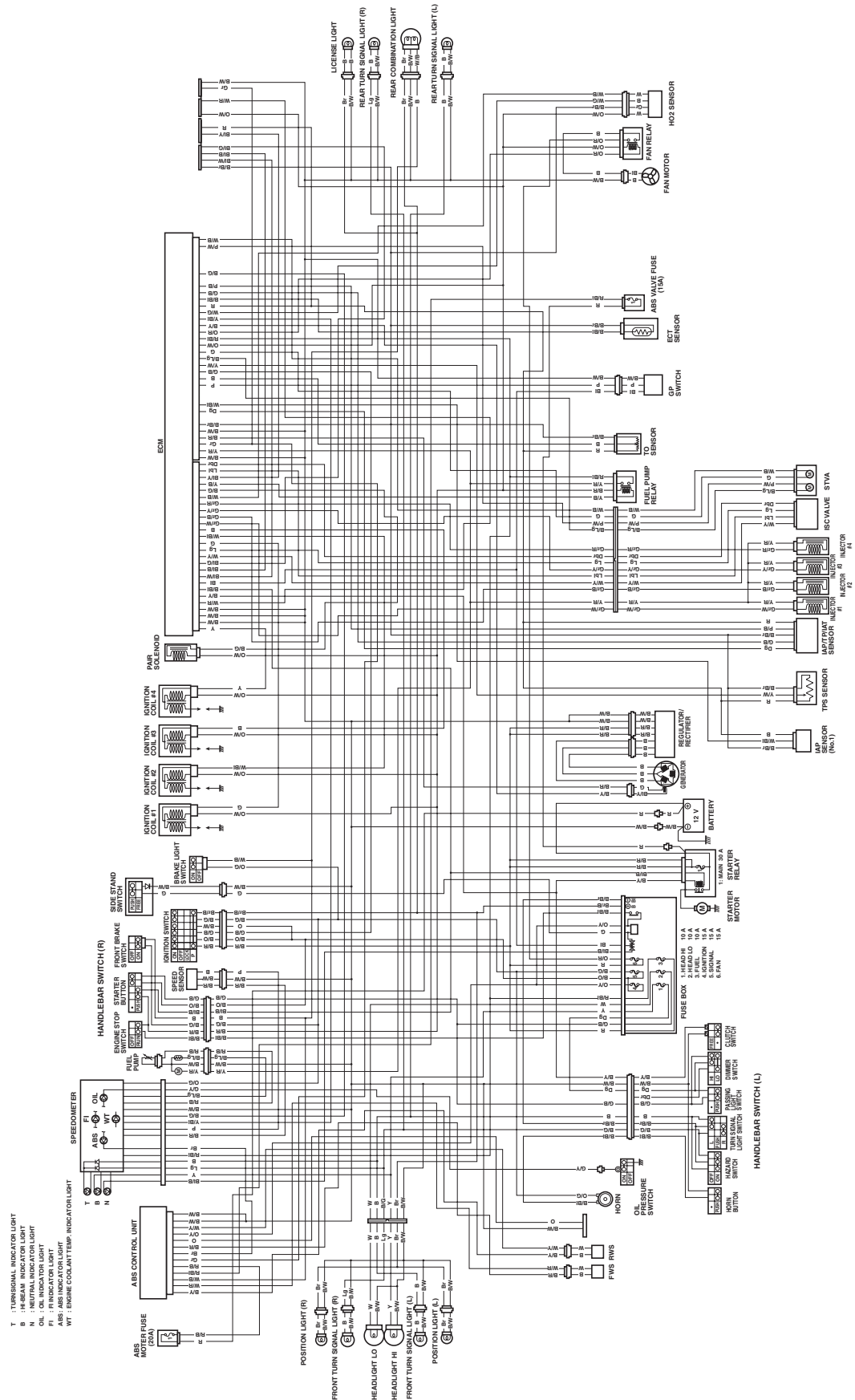
Refer to "Wire Color Symbols in Section 0A (Page 0A-6)".

For E-02, 19



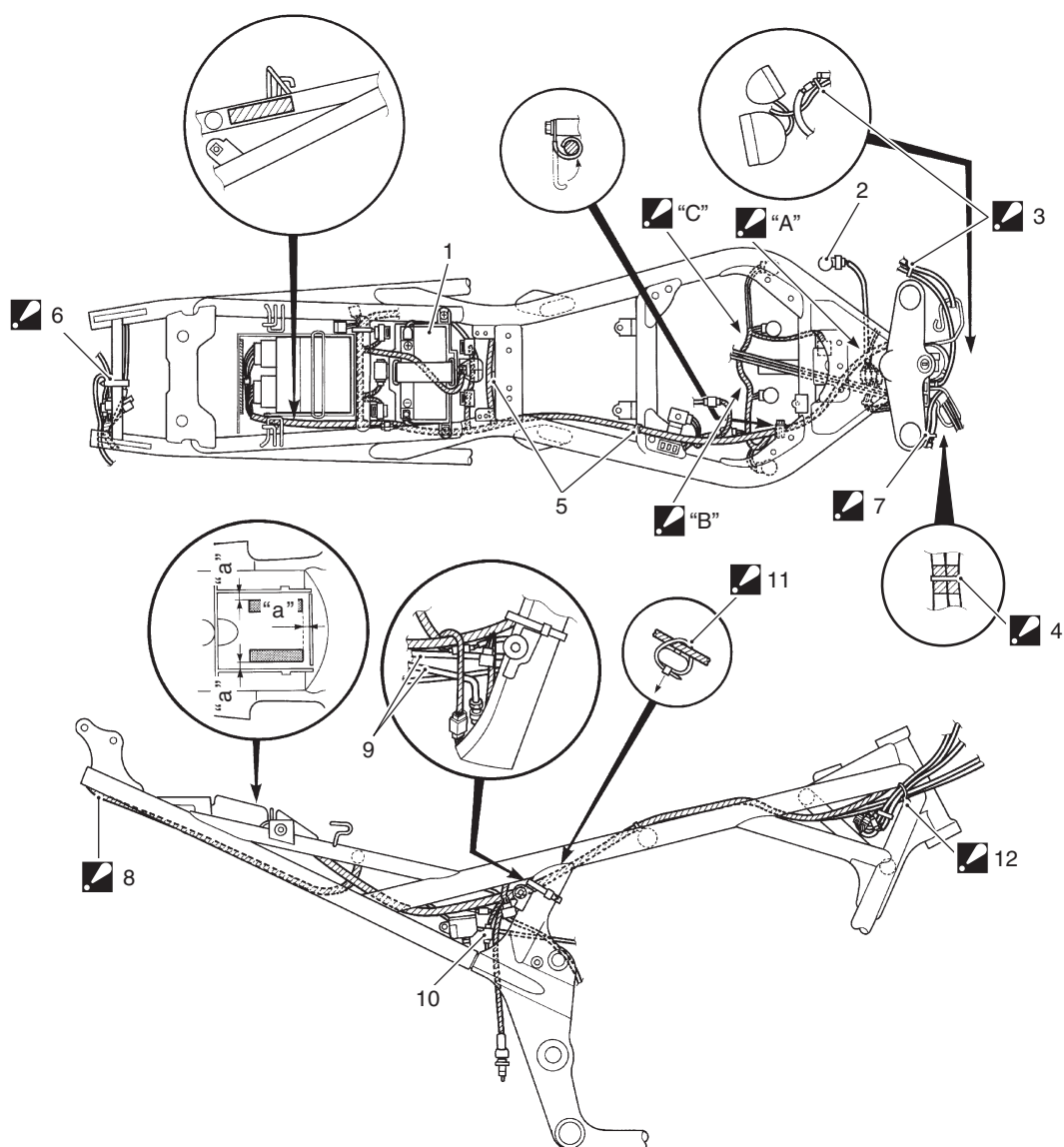
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For E-03, 24, 28



Wiring Harness Routing Diagram

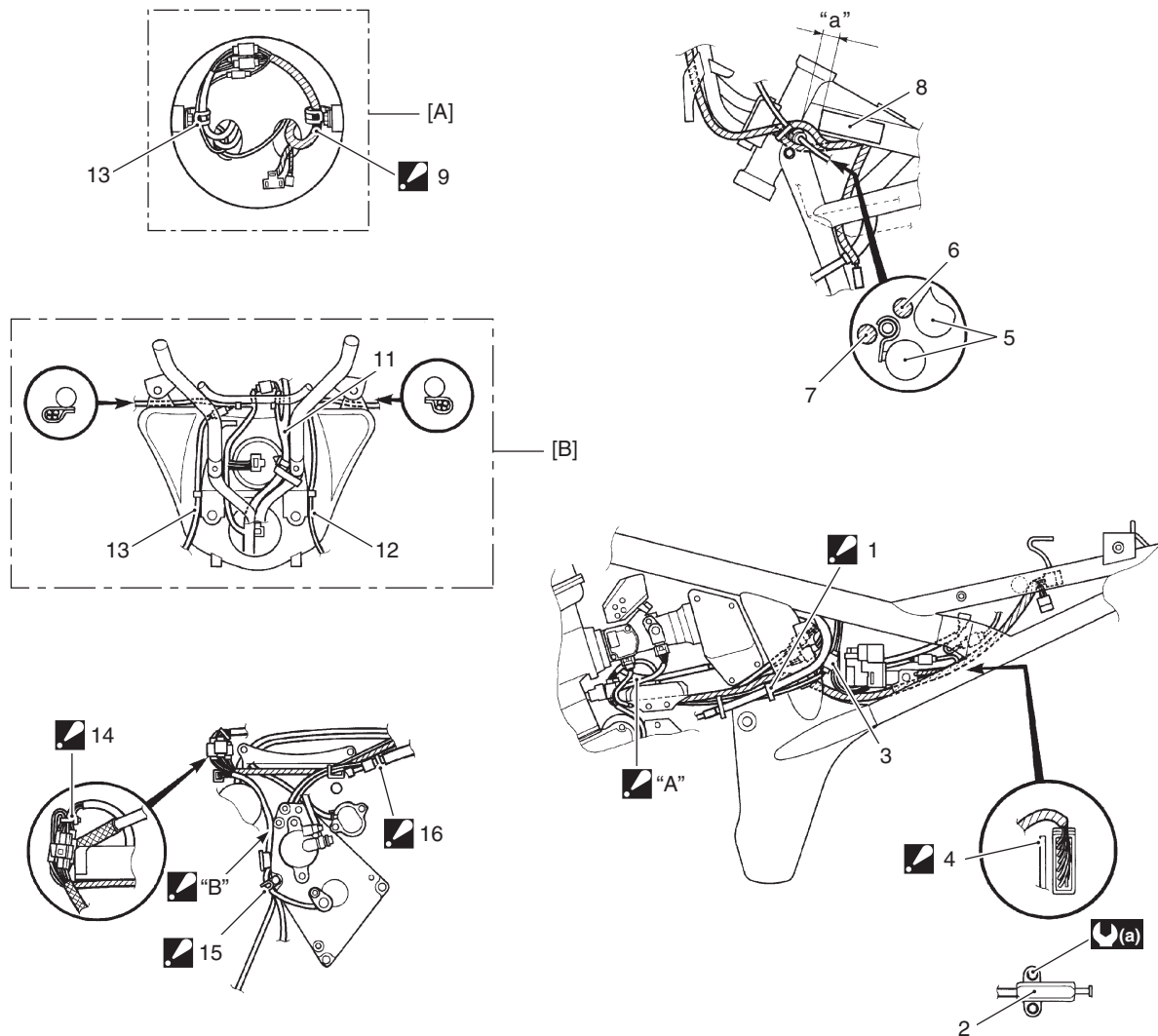
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I718H1910910-05

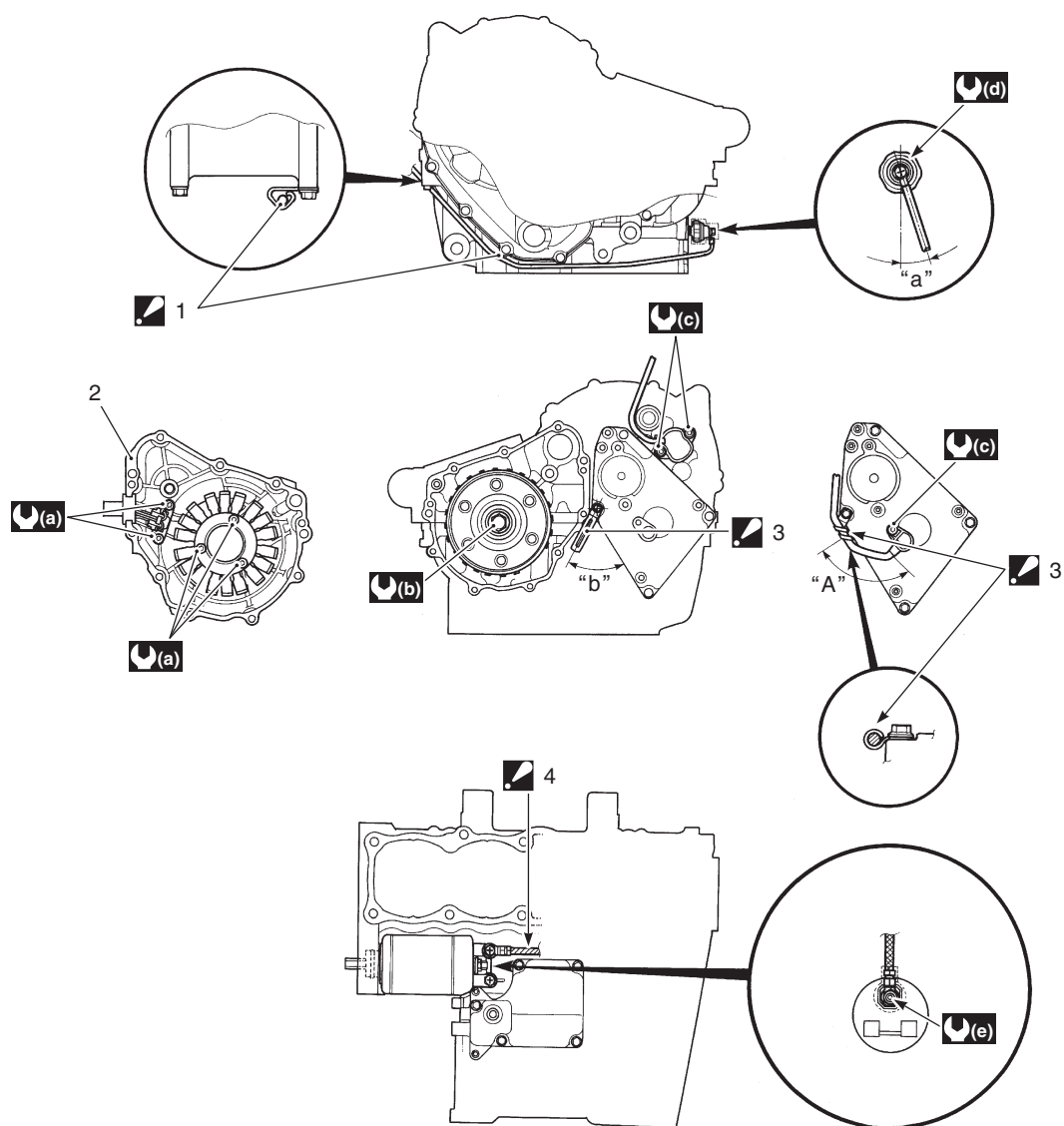
1. Battery	9. Brake hose (ABS) (GSF1250A/SA only)
2. EVAP purge control valve (E-33 only)	10. Rear wheel speed sensor (GSF1250A/SA only)
3. Clamp (GSF1250A only) : Pass through the speed meter lead right side of ignition switch. Cut the tip of clamp after clamping.	11. Clamp : Clamp the lead wire and ABS brake hose (GSF1250A/SA).
4. Clamp (GSF1250S/SA only) : Clamp the handle switch right and left lead at the middle of blue taping.	12. Clamp : Clamp the handle bar lead wires, ignition switch lead wire and front wheel speed sensor lead wire (GSF1250A/SA).
5. Clamp	"A": Pass through the horn and fan lead wire upper the ABS brake hose (GSF1250A/SA). Pass through the EVAP purge control valve lead wire upper the clutch hose (E-33 only).
6. Clamp : Clamp tip backward.	"B": Pass through the lead wire under the water hoses.
7. Clamp : Cut the tip of clamp after clamping.	"C": Slack the lead wire downward.
8. Wring harness : Be careful not to pinch the wring harness with the frame and fender.	"a": 5 – 10 mm (0.2 – 0.4 in)

9A-9 Wiring Systems:



I718H1910912-03

1. Clamp : Clamp the speed sensor lead wire and HO2 sensor lead wire.	12. Turn signal lead wire (RH)
2. Side-stand switch	13. Turn signal lead wire (LH)
3. HO2 sensor coupler	14. Clamp : Clamp the regulator/rectifier lead wire and generator lead wire.
4. ABS control unit/HU bracket (GSF1250A/SA only) : Do not contact the ABS unit wiring harness with the bracket.	15. Clamp : Clamp the speed sensor lead wire, HO2 sensor lead wire and side-stand switch lead wire.
5. Frame	16. Clamp : Clamp the lead wire inside of clutch hose.
6. Wiring harness (GSF1250/A)	"A": Pass the regulator/rectifier lead wire behind hose.
7. Wiring harness (GSF1250S/SA)	"B": Set the generator lead wire between starter motor and sprocket inner cover.
8. ICES Canada label (E-28 only)	(a) : 14 N·m (1.4 kgf-m, 10.0 lb-ft)
9. Clamp : Clamp the lead wire at the white marking.	"a": 20 ± 5 mm (0.8 ± 0.2 in)
10. Clamp : Clamp the speed meter lead wire and turn signal lead wires.	[A]: For GSF1250/GSF1250A
11. Wiring harness	[B]: For GSF1250S/GSF1250SA



I718H1910913-02

1. Oil pressure lead wire : Be careful not to slacken the oil pressure lead wire.	(c) : 6.5 N·m (0.65 kgf-m, 4.7 lb-ft)
2. Generator cover	(d) : 1.5 N·m (0.15 kgf-m, 1.0 lb-ft)
3. Clamp : Push the clamp inside after clamping lead wire.	(e) : 5 N·m (0.5 kgf-m, 3.5 lb-ft)
4. Battery (-) lead wire : Set lead wire horizontally for right side.	"a" : $20^{\circ} \pm 10^{\circ}$
(a) : 11 N·m (1.1 kgf-m, 8.0 lb-ft)	"b" : $60^{\circ} \pm 10^{\circ}$
(b) : 120 N·m (12 kgf-m, 87 lb-ft)	"A" : Not slacken lead wire between sensor and clamp.

Specifications

Service Data

B718H19107001

Electrical

Item			Specification	Note
Fuse size	Headlight	HI	10 A	
		LO	10 A	
	Fuel		10 A	
	Ignition		15 A	
	Signal		15 A	
	Main		30 A	
	ABS motor (GSF1250A/SA only)		20 A	
	ABS valve (GSF1250A/SA only)		15 A	

Tightening Torque Specifications

B718H19107002

NOTE

The specified tightening torque is also described in the following.
“Wiring Harness Routing Diagram (Page 9A-8)”

Reference:

For the tightening torque of fastener not specified in this section, refer to “Tightening Torque Specifications in Section 0C (Page 0C-7)”.

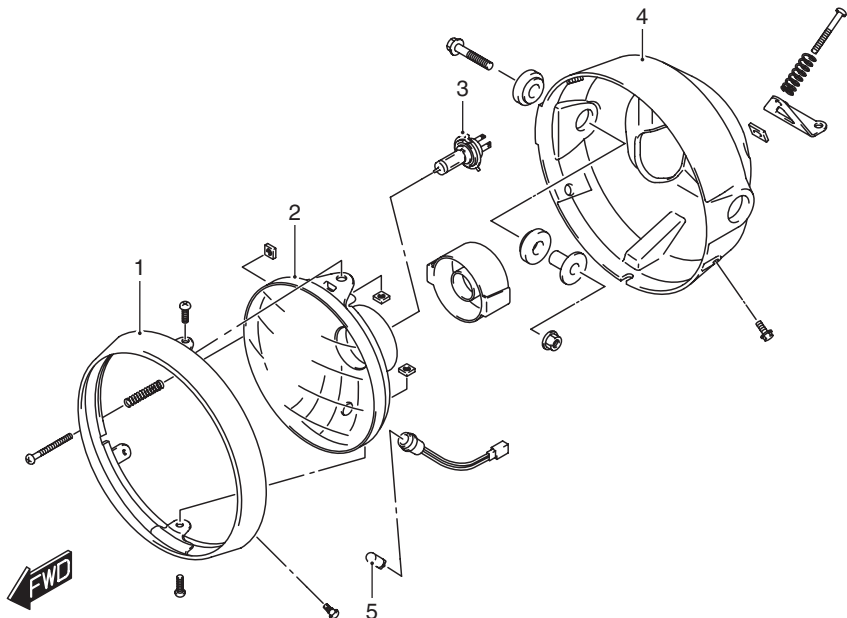
Lighting Systems

Repair Instructions

Headlight Components

GSF1250/A

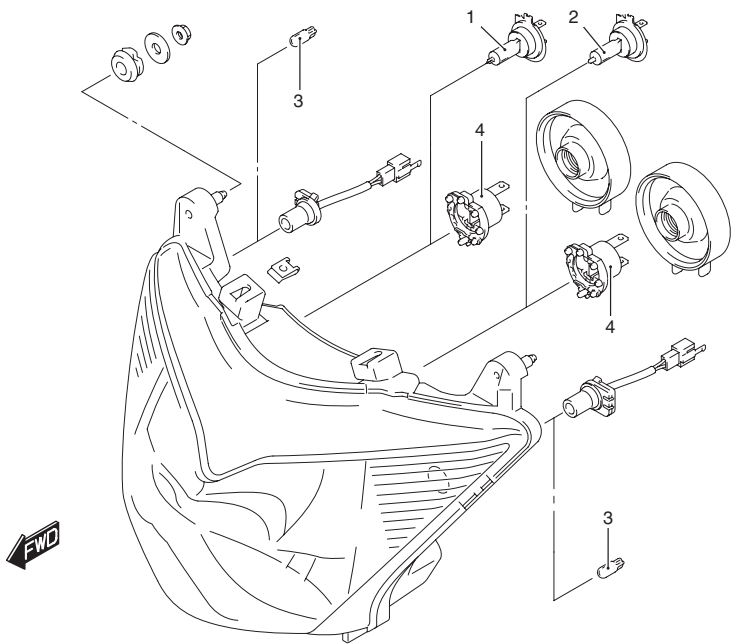
B718H19206001



I718H1920047-02

1. Headlight rim	3. Headlight bulb (12 V 60/55 W, H4)	5. Position light bulb (12 V 5 W)
2. Headlight unit	4. Headlight housing	

GSF1250S/SA



I718H1920048-02

1. Headlight low beam bulb (12 V 55 W, H7)	3. Position light bulb (12 V 5 W x 2)
2. Headlight highbeam bulb (12 V 55 W, H7)	4. Socket

9B-2 Lighting Systems:

Headlight Removal and Installation

B718H192006024

GSF1250/A

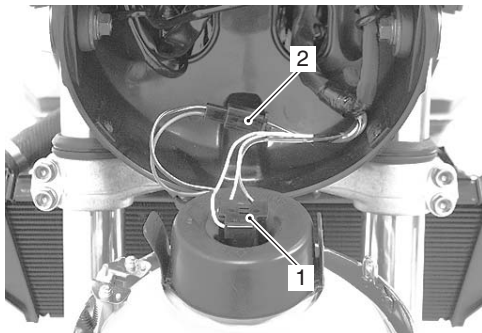
Removal

- 1) Removal the headlight mounting screws.



I718H1920006-01

- 2) Disconnect the headlight coupler (1) and position light coupler (2).

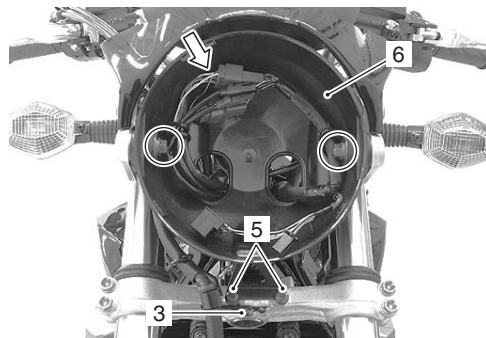


I718H1920007-01

- 3) Remove the front brake hose clamp bolt (3) (GSF1250) or front brake hose joint mounting bolt (4) (GSF1250A).
- 4) Remove the headlight beam vertical adjuster plate mounting bolts (5).

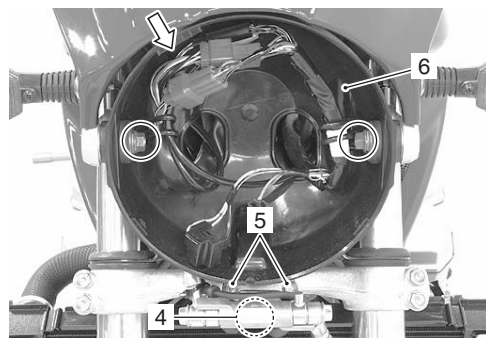
- 5) Disconnect the respective couplers and remove the headlight housing (6).

GSF1250



I718H1920040-04

GSF1250A



I718H1920008-03

Installation

Installation is in the reverse order of removal. Pay attention to the following point:

- After installing, be sure to inspect the headlight beam. Refer to "Headlight Beam Adjustment (Page 9B-5)".

GSF1250S/SA**Removal**

- 1) Remove the cowling. Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Disconnect the headlight and position light couplers.
- 3) Remove the headlight assembly.



I718H1920002-01

Installation

Installation is in the reverse order of removal. Pay attention to the following point:

- After installing, be sure to inspect the headlight beam. Refer to "Headlight Beam Adjustment (Page 9B-5)".

Headlight Bulb Replacement

B718H19206025

⚠ CAUTION

When you touch the bulb with your bare hands, clean the bulb with a cloth moistened with alcohol or soap water to prevent premature bulb failure.

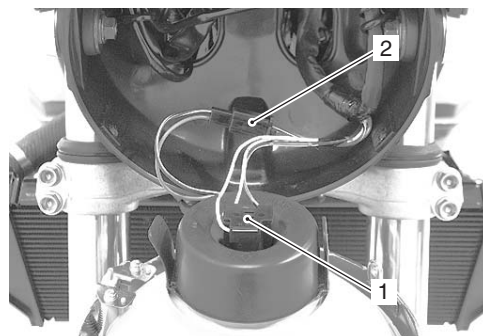
GSF1250/A

- 1) Remove the headlight mounting screws.



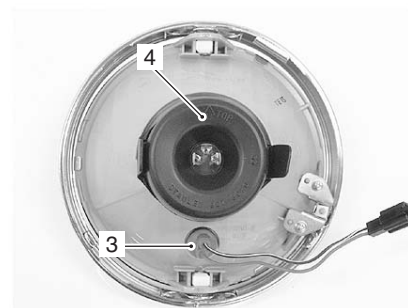
I718H1920006-01

- 2) Disconnect the headlight coupler (1) and position light coupler (2).



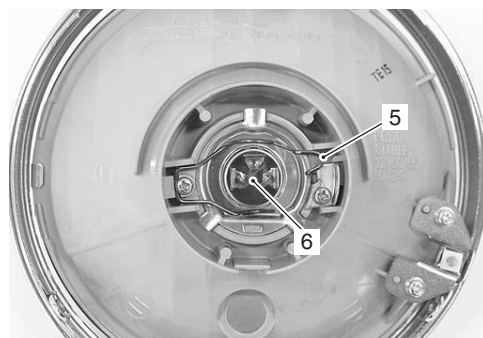
I718H1920014-01

- 3) Remove the position light socket (3) and replace the position light bulb.
- 4) Remove the bulb socket rubber cap (4).



I718H1920015-01

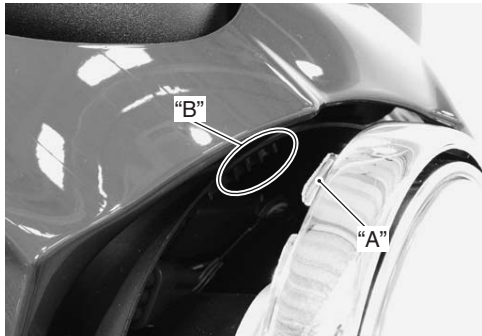
- 5) Replace the headlight bulb (6) by unhooking the bulb holder spring (5).



I718H1920016-01

9B-4 Lighting Systems:

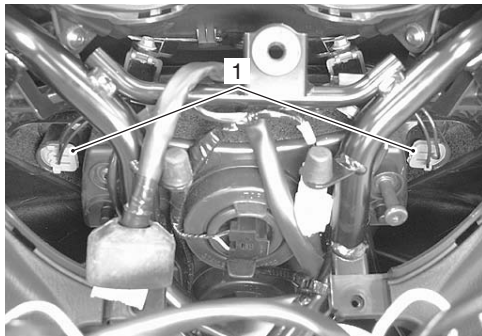
- 6) Reassemble the headlight.
- 7) Install the headlight assembly so that the hook "A" on the headlight bezel engages with "B" of the housing.



I718H1920017-03

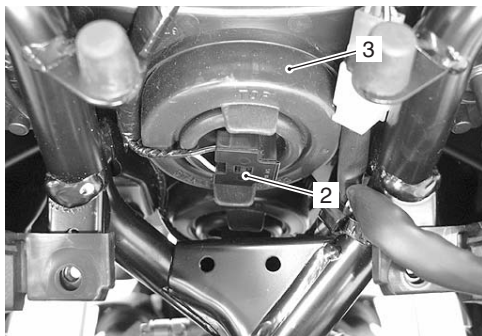
GSF1250S/SA

- 1) Remove the combination meter assembly. Refer to "Combination Meter Removal and Installation in Section 9C (Page 9C-4)".
- 2) Remove the position light sockets (1) and replace the position light bulbs.



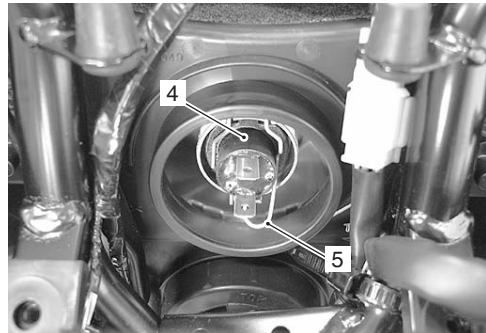
I718H1920009-01

- 3) Disconnect the headlight (Low beam) coupler (2) and remove the bulb socket rubber cap (3).



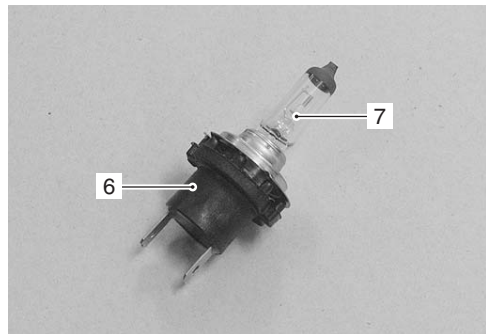
I718H1920010-02

- 4) Replace the headlight bulb/socket (Low beam) (4) by unhooking the bulb holder spring (5).



I718H1920011-02

- 5) Disconnect the headlight bulb (7) from the socket (6).
- 6) Replace the headlight bulb (7) with a new one.



I718H1920049-02

- 7) Replace the headlight bulb (High beam) in the same way as that of the low beam one.



I718H1920012-01

- 8) Reinstall the removed parts.

Headlight Beam Adjustment

B718H19206026

GSF1250/A

Adjust the headlight beam, both horizontally and vertically.

NOTE

To adjust the headlight beam, adjust the beam horizontally first, then vertically.



I718H1920037-02

1. Horizontal adjuster	2. Vertical adjuster
------------------------	----------------------

GSF1250S/SA

- 1) Insert 5 mm hexagon wrench as shown and adjust the Low and High headlight beam horizontally.

NOTE

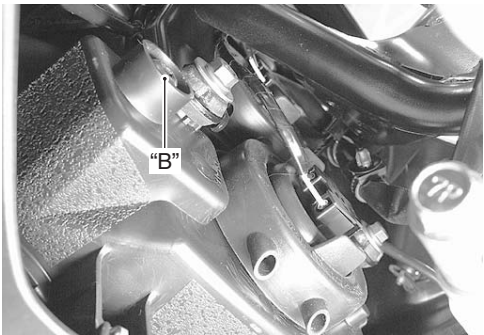
To adjust the headlight beam, adjust the beam horizontally first, then vertically.



I718H1920041-01

"A": Horizontal adjuster (For both Low and High beam)

- 2) Adjust the Low and High headlight beam vertically from the lower side.

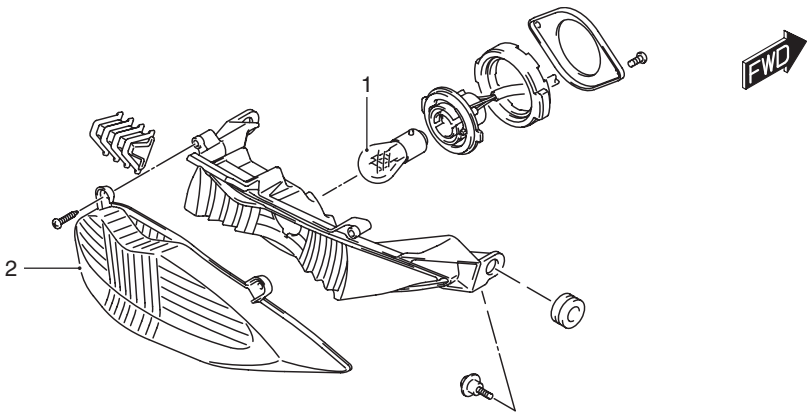


I718H1920042-01

"B": Vertical adjuster (For both Low and High beam)

Rear Combination Light Components

B718H19206005

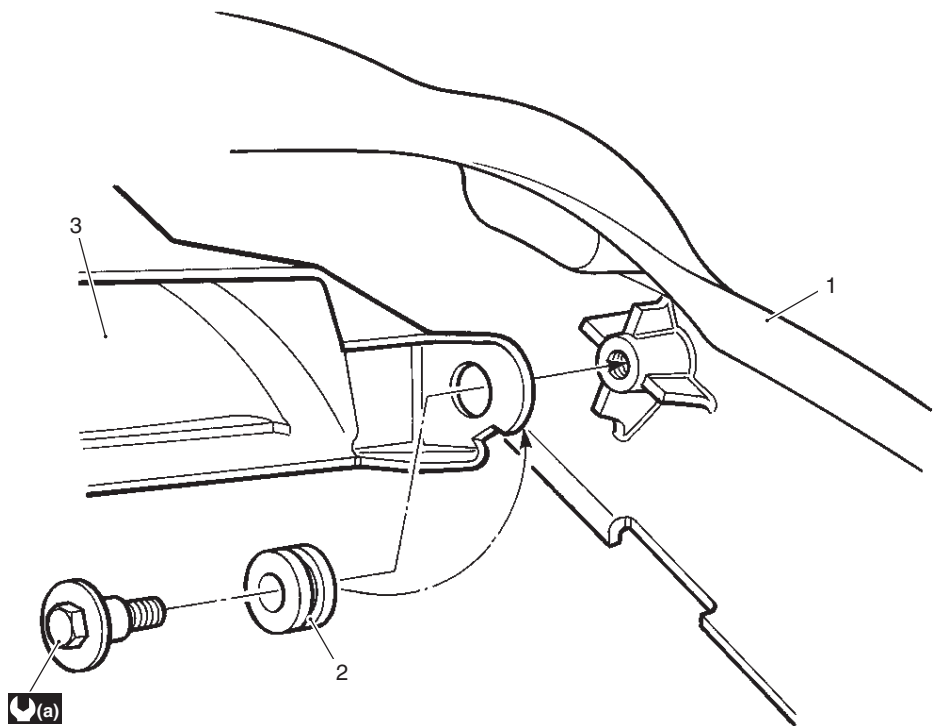


1. Brake light/Taillight bulb (12 V 21/5 W)	2. Lens
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I649G1920017-02

Rear Combination Light Construction

B718H19206006



I649G1920018-01

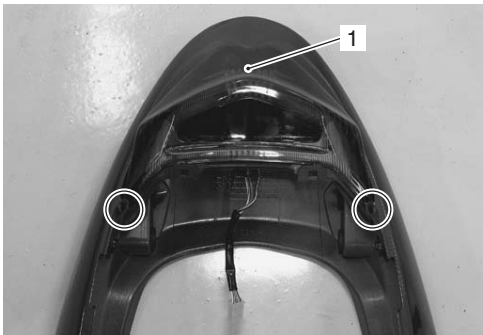
1. Seat tail cover	2. Cushion	3. Rear combination light	(a) : 2.0 N·m (0.2 kgf-m, 1.5 lb-ft)
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Rear Combination Light Removal and Installation

B718H19206007

Removal

- 1) Remove the seat tail cover. Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
- 2) Remove the rear combination light (1) from the seat tail cover.



I718H1920018-01

Installation

Install the rear combination light in the reverse order of removal. Pay attention to the following point:

- Tighten the rear combination light mounting bolts to the specified torque.

Tightening torque

Rear combination light mounting bolt: 2.0 N·m (0.2 kgf-m, 1.5 lb-ft)

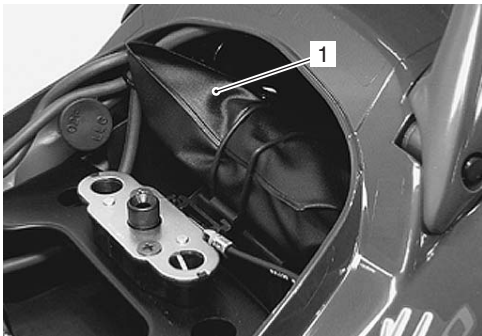
Brake Light Bulb / Taillight Bulb Replacement

B718H19206008

⚠ CAUTION

When you touch the bulb with your bare hands, clean the bulb with a cloth moistened with alcohol or soap water to prevent premature bulb failure.

- 1) Remove the seat. Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
2) Remove the tool set (1).



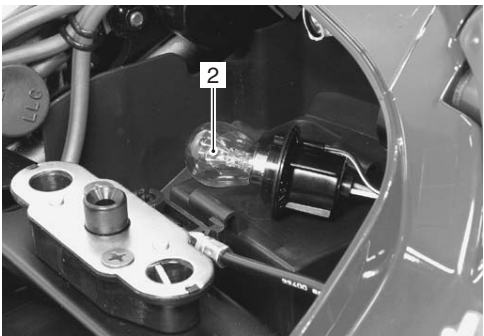
I718H1920051-01

- 3) Remove the bulb socket by turning it counterclockwise.



I718H1920020-01

- 4) Replace the bulb (2).

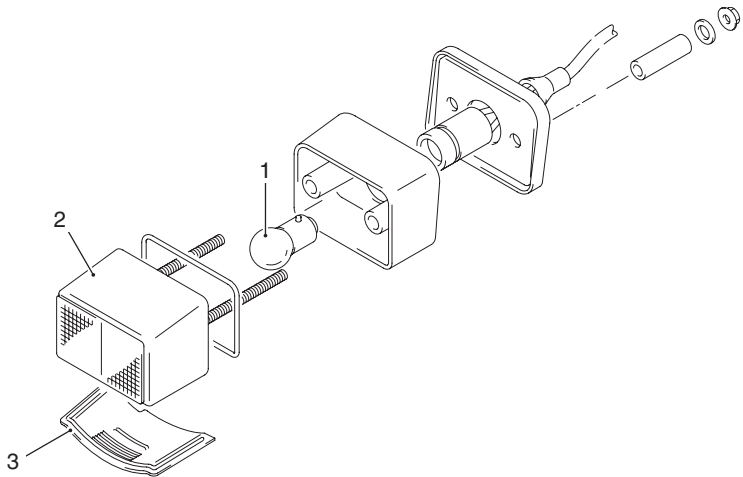


I718H1920021-01

- 5) Reinstall the removed parts.

License Plate Light Components

B718H19206009



1. License plate light bulb (12 V 5 W)	2. Lens cover	3. Lens
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I649G1920023-02

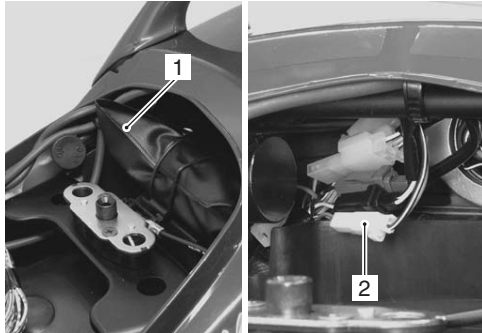
9B-8 Lighting Systems:

License Plate Light Removal and Installation

B718H19206010

Removal

- 1) Remove the seat. Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
- 2) Remove the tool set (1) and disconnect the license plate light coupler (2).



I718H1920022-01

- 3) Remove the license plate light by removing the nuts.



I718H1920023-01

Installation

Install the license plate light in the reverse order of removal.

License Plate Light Bulb Replacement

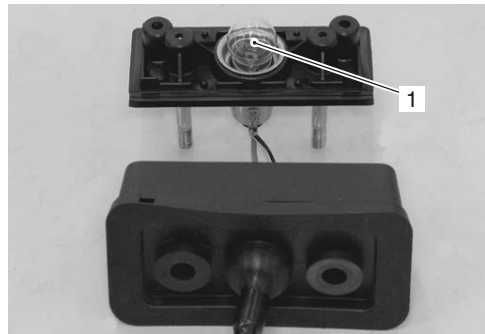
B718H19206011

- 1) Remove the license plate light. Refer to “License Plate Light Removal and Installation (Page 9B-8)”.
- 2) Remove the lens by removing the screws.



I718H1920024-01

- 3) Replace the bulb (1).

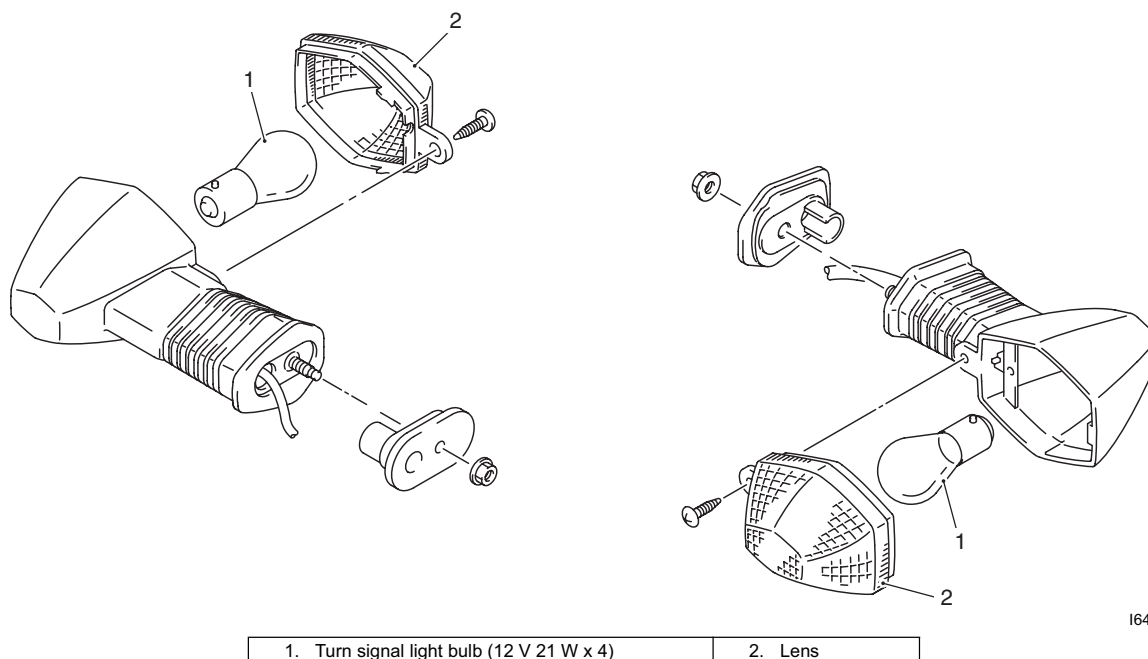


I718H1920026-01

- 4) Reinstall the removed parts.

Turn Signal Light Components

B718H19206012



I649G1920028-03

Front Turn Signal Light Removal and Installation

B718H19206013

GSF1250/A

Removal

- 1) Remove the headlight housing. Refer to "Headlight Removal and Installation (Page 9B-2)".
- 2) Remove the front turn signal light (1) by removing the nut.



I718H1920027-01

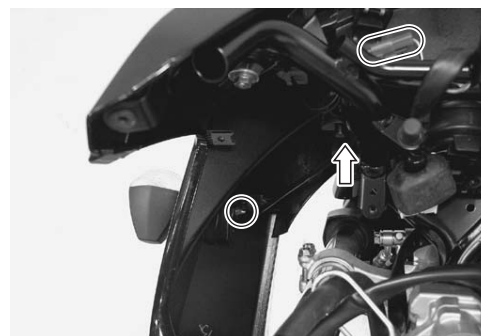
Installation

Install the front turn signal light in the reverse order of removal.

GSF1250S/SA

Removal

- 1) Remove the wind screen and upper panel. Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Disconnect the turn signal light coupler and clamp.
- 3) Remove the front turn signal light (1) by removing the nut.



I718H1920050-01

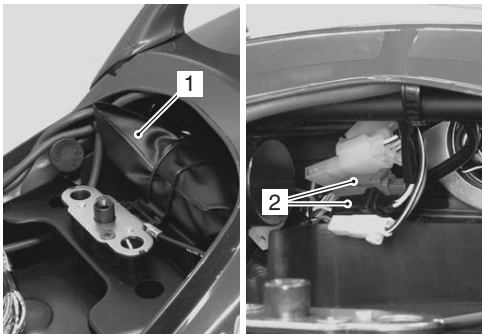
Installation

Install the front turn signal light in the reverse order of removal.

Rear Turn Signal Light Removal and Installation
B718H19206014

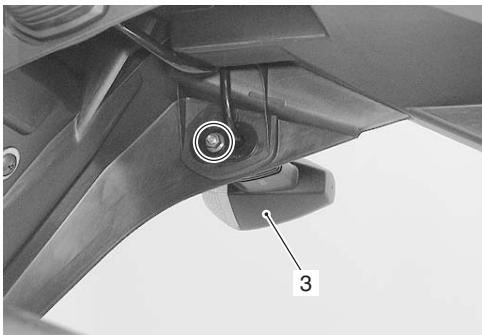
Removal

- 1) Remove the seat. Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
- 2) Remove the tool set (1) and disconnect the turn signal light coupler (RH: Black, LH: Gray) (2).



I718H1920028-01

- 3) Remove the turn signal light (3) by removing the nut.

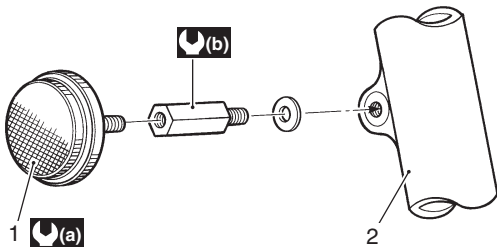


I718H1920029-02

Installation

Install the rear turn signal light in the reverse order of removal.

Reflex Refractor Construction



Turn Signal Light Bulb Replacement

B718H19206015

CAUTION

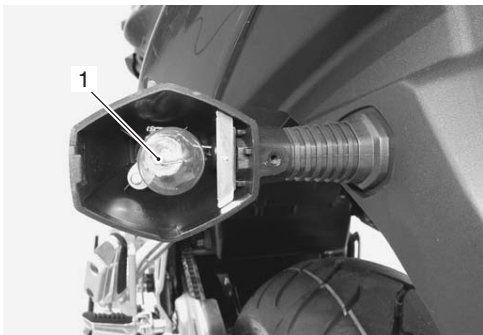
When you touch the bulb with your bare hands, clean the bulb with a cloth moistened with alcohol or soap water to prevent premature bulb failure.

- 1) Remove the lens by removing the screw.



I718H1920030-01

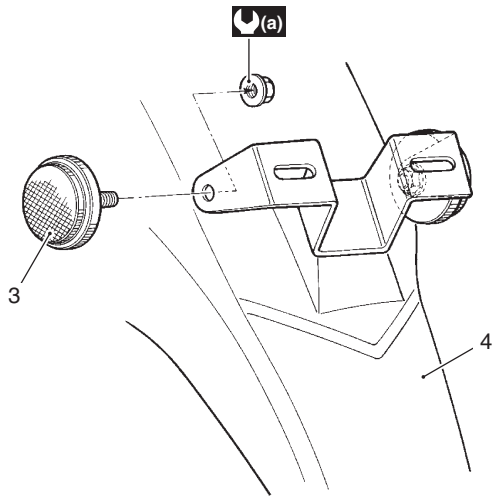
- 2) Replace the bulb (1).



I718H1920031-01

- 3) Reinstall the lens.

B718H19206016



I718H1920044-05

1. Front reflex refractor (For E-03, 24, 28, 33)	3. Rear reflex refractor (For E-03, 28, 33)	(a) : 1.8 N·m (0.18 kgf-m, 1.3 lb-ft)
2. Front fork	4. Rear fender	(b) : 4.5 N·m (0.45 kgf-m, 3.25 lb-ft)

Turn Signal / Side-stand Relay Inspection

B718H19206017

Refer to “Electrical Components Location in Section 0A (Page 0A-8)”.

NOTE

Make sure that the battery is fully charged.

Before removing the turn signal/side-stand relay, check the operation of the turn signal light.
If the turn signal light does not illuminate, inspect the bulb, turn signal switch and circuit connection.
If the bulb, turn signal switch and circuit connection are OK, the turn signal relay may be faulty; therefore, replace the turn signal/side-stand relay with a new one.
Refer to “Turn Signal / Side-stand Relay Removal and Installation (Page 9B-11)”.

Turn Signal / Side-stand Relay Removal and Installation

B718H19206018

Removal

- 1) Remove the left frame cover. Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
- 2) Remove the turn signal/side-stand relay (1).



I718H1920034-01

Installation

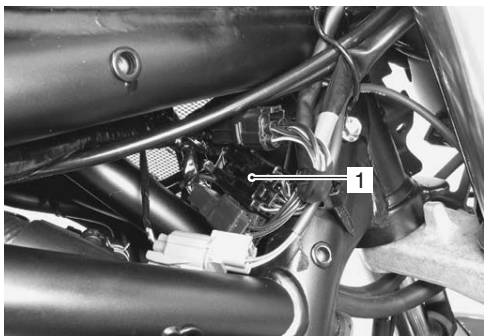
Install the turn signal/side-stand relay in the reverse order of removal.

Hazard Switch Inspection

B718H19206019

Inspect the hazard switch in the following procedures:

- 1) Remove the right frame head cover. (GSF1250/A)
Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
- 2) Disconnect the left handlebar switch coupler (1).



I718H1920035-01




- 3) Inspect the hazard switch for continuity with a tester.
If any abnormality is found, replace the left handlebar switch assembly with a new one. Refer to “Handlebar Removal and Installation in Section 6B (Page 6B-3)”.

Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Continuity (•)))

Color Position	B	B/Br	B/G
OFF			
ON			

I718H1920045-01

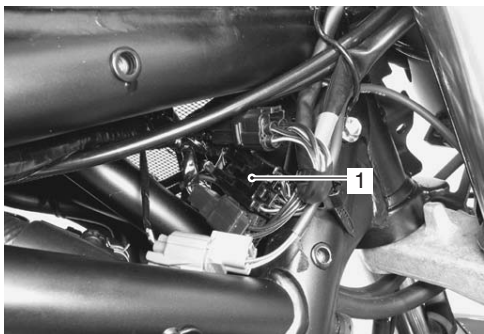
- 4) After finishing the hazard switch inspection, reinstall the removed parts.

Turn Signal Switch Inspection

B718H19206020

Inspect the turn signal switch in the following procedures:

- 1) Remove the right frame head cover. (GSF1250/A)
Refer to “Exterior Parts Removal and Installation in Section 9D (Page 9D-6)”.
- 2) Disconnect the left handlebar switch coupler (1).



I718H1920035-01

9B-12 Lighting Systems:


- 3) Inspect the turn signal switch for continuity with a tester. If any abnormality is found, replace the left handlebar switch assembly with a new one. Refer to "Handlebar Removal and Installation in Section 6B (Page 6B-3)".

Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Continuity (•)))

Color Position	B/G	B/Br	B
L			
PUSH			
R			

I649G1920037-01

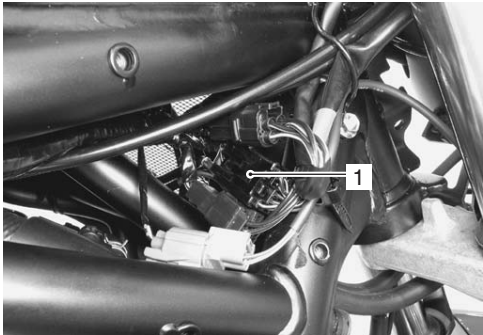
- 4) After finishing the turn signal switch inspection, reinstall the removed parts.

Passing Light Switch Inspection

B718H19206021

Inspect the passing light switch in the following procedures:

- 1) Remove the right frame head cover. (GSF1250/A)
Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Disconnect the left handlebar switch coupler (1).



I718H1920035-01



- 3) Inspect the passing light switch for continuity with a tester. If any abnormality is found, replace the left handlebar switch assembly with a new one. Refer to "Handlebar Removal and Installation in Section 6B (Page 6B-3)".

Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Continuity (•)))

Color Position	G/B	Dg
•		
PUSH		

I649G1920038-01

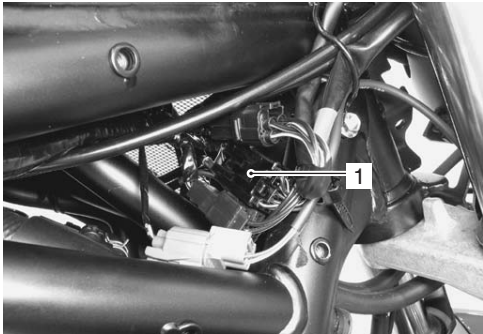
- 4) After finishing the passing light switch inspection, reinstall the removed parts.

Dimmer Switch Inspection

B718H19206022

Inspect the dimmer switch in the following procedures:


- 1) Remove the right frame head cover. (GSF1250/A)
Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Disconnect the left handlebar switch coupler (1).



I718H1920035-01





- 3) Inspect the dimmer switch for continuity with a tester. If any abnormality is found, replace the left handlebar switch assembly with a new one. Refer to "Handlebar Removal and Installation in Section 6B (Page 6B-3)".

Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Continuity (•)))

Color Position	Dbr	Dg	G/B
HI			
LO			

I718H1920046-04

- 4) After finishing the dimmer switch inspection, reinstall the removed parts.

Specifications

Service Data

B718H19207001

Wattage

Unit: W

Item		Specification	
		GSF1250/A	GSF1250S/SA
Headlight	HI	60	55
	LO	55	←
Parking or position light		5	5 x 2
Brake light/Taillight		21/5	←
Turn signal light		21 x 4	←
License plate light		5	←

Tightening Torque Specifications

B718H19207002

Fastening part	Tightening torque			Note
	N·m	kgf-m	lb-ft	
Rear combination light mounting bolt	2.0	0.2	1.5	☞ (Page 9B-6)

NOTE

The specified tightening torque is also described in the following.

“Rear Combination Light Construction (Page 9B-6)”

“Reflex Refractor Construction (Page 9B-10)”


Reference:

For the tightening torque of fastener not specified in this section, refer to “Tightening Torque Specifications in Section 0C (Page 0C-7)”.

Special Tools and Equipment

Special Tool

B718H19208001

09900-25008 Multi-circuit tester set ☞ (Page 9B-11) / ☞ (Page 9B-12) / ☞ (Page 9B-12) / ☞ (Page 9B-12)		
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Combination Meter / Fuel Meter / Horn

General Description

Combination Meter System Description

B718H19301001

This combination meter mainly consists of the stepping motor, LCD (Liquid Crystal Display) and LED (Light Emitting Diode).

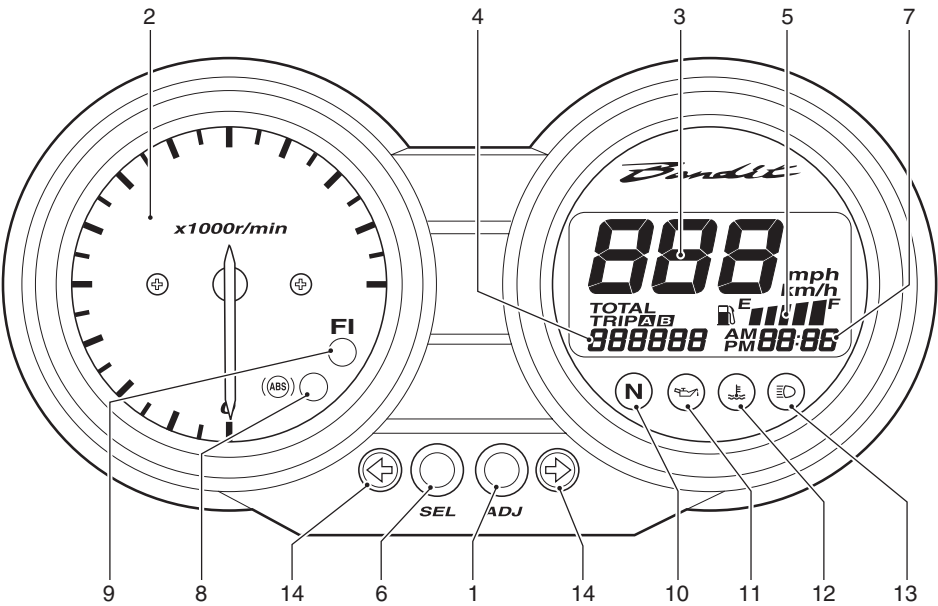
The rpm pointer is driven by the stepping motor.

The LCDs indicate Speed, Odo / Trip A / Trip B, Fuel level indicator and Clock / FI (DTC) respectively.

LED (Light Emitting Diode)

LED is used for the illumination light and each indicator light.

LED is maintenance free. LED is less power consuming and more resistant to vibration resistance compared to the bulb.



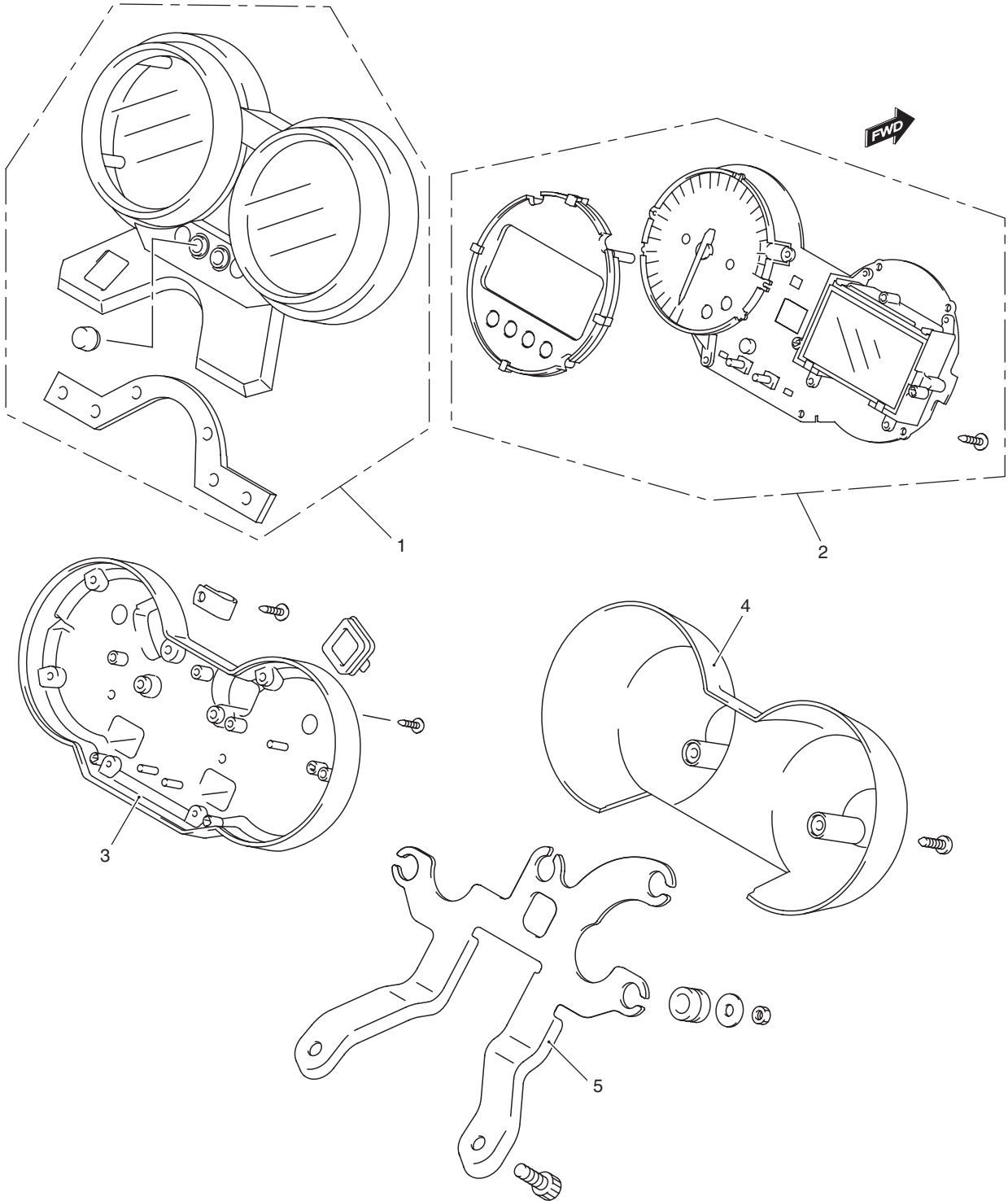
I718H1930048-01

1. Adjust switch (Trip / Clock)	6. Select switch (Odo / Trip A / Trip B)	11. LED (Oil pressure indicator light)
2. Tachometer	7. LCD (FI / Clock)	12. LED (Engine coolant temperature indicator light)
3. LCD (Speedometer)	8. LED (ABS indicator light) [GSF1250A/SA only]	13. LED (High-beam indicator light)
4. LCD (Odo / Trip A / Trip B)	9. LED (FI indicator light)	14. LED (Turn signal indicator light)
5. LCD (Fuel level indicator)	10. LED (Neutral indicator light)	

Repair Instructions

Combination Meter Components GSF1250/A

B718H19306001

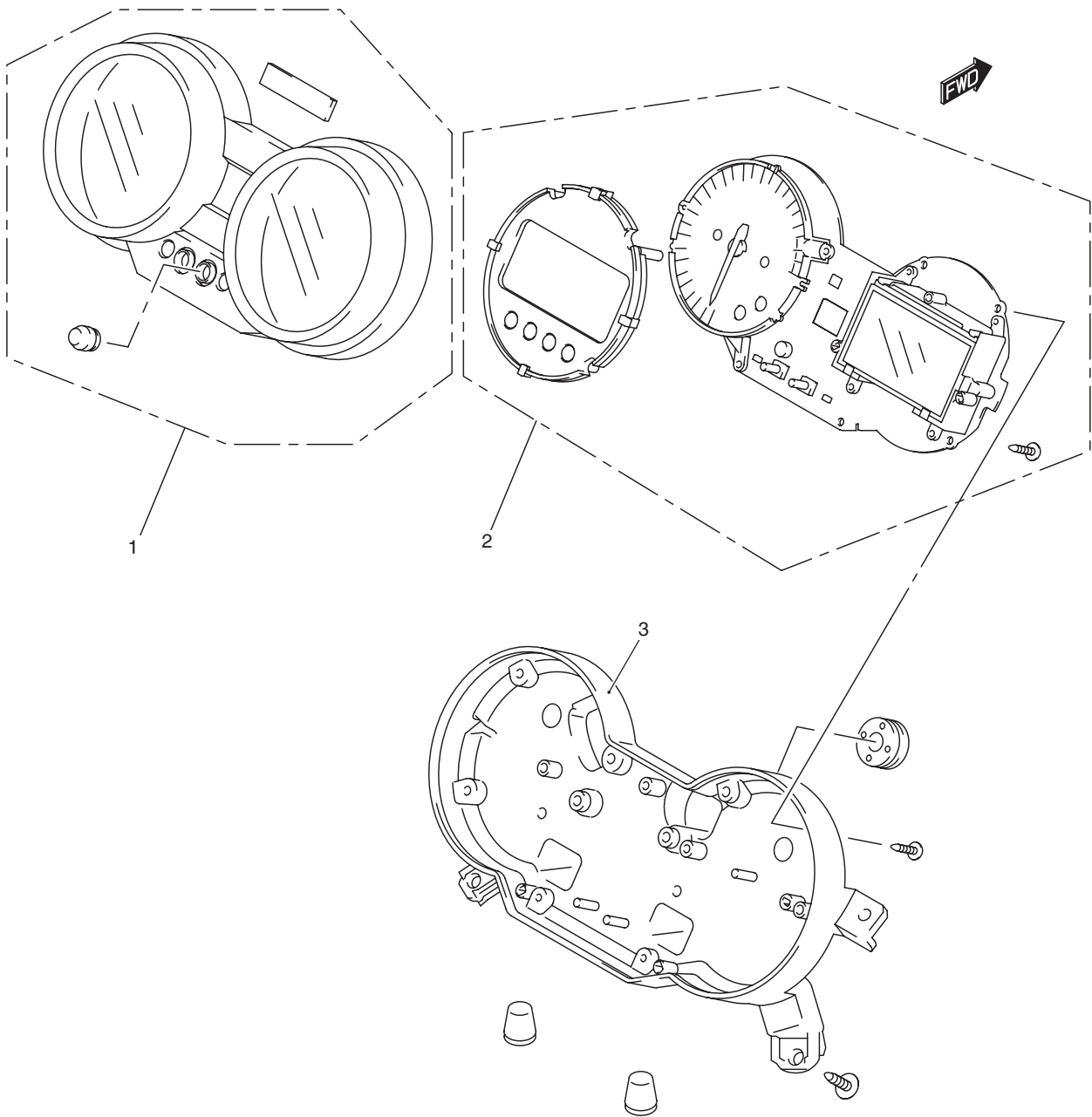


I718H1930046-03

1. Upper case	2. Combination meter	3. Lower case	4. Cover	5. Bracket
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9C-3 Combination Meter / Fuel Meter / Horn:

GSF1250S/SA



I718H1930047-02

Combination Meter Removal and Installation

B718H19306002

GSF1250/A**Removal**

- 1) Remove the combination meter mounting bolts.



I718H1930057-01

- 2) Remove the headlight. Refer to "Headlight Removal and Installation in Section 9B (Page 9B-2)".
- 3) Disconnect the combination meter couplers and remove the combination meter assembly (1).



I718H1930058-01

Installation

Install the combination meter in the reverse order of removal.

GSF1250S/SA**Removal**

- 1) Remove the meter panel screws.



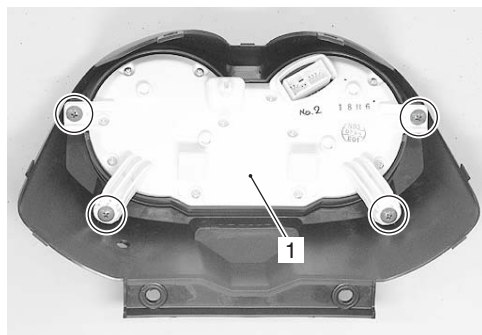
I718H1930017-02

- 2) Disconnect the combination meter coupler and remove the combination meter assembly.



I718H1930018-01

- 3) Remove the combination meter (1).



I718H1930019-01

Installation

Install the combination meter in the reverse order of removal.

NOTE

Fix the boot of the combination meter coupler properly.

Combination Meter Disassembly and Assembly

B718H19306003

Refer to "Combination Meter Removal and Installation (Page 9C-4)".

Disassembly

Disassemble the combination meter as shown in the combination meter components. Refer to "Combination Meter Components (Page 9C-2)".

Assembly

Assemble the combination meter as shown in the combination meter components. Refer to "Combination Meter Components (Page 9C-2)".

Combination Meter Inspection

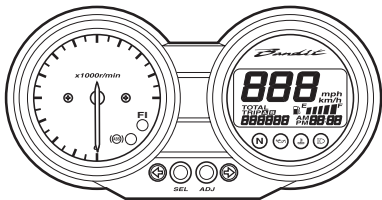
B718H19306004

LED Inspection

Check that the LEDs (FI indicator light, ABS indicator (GSF1250A/SA only), Oil pressure, Engine coolant temperature indicator light and Meter panel illumination) immediately light up when the ignition switch is turned to ON.

Check that other LEDs (Neutral indicator light, High-beam indicator light and Turn signal indicator lights) light up/go off by operating each switch.

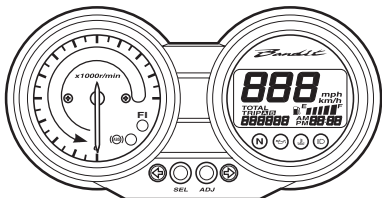
If abnormal condition is found, replace the combination meter unit with a new one after checking its wire harness/coupler. Refer to “Combination Meter Removal and Installation (Page 9C-4)”.



I718H1930049-01

Stepping Motor Inspection and Adjustment

- 1) Check that the pointer calibrates itself immediately after turning the ignition switch on and stops at zero point.
If abnormal condition is found, replace the combination meter unit with a new one after checking its wire harness/coupler.

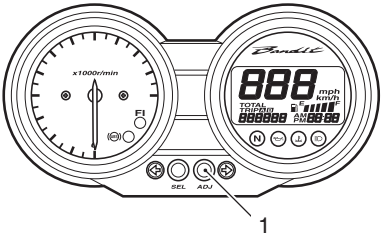


I718H1930050-01

NOTE

- The pointer may not return to the proper position even turning the ignition switch on under low temperature condition. In that case, you can reset the pointer to the proper position by the following instruction):
- Complete the operation within 10 seconds after the ignition switch has been turned on.

- 2) With the adjuster switch (1) pressed, turn the ignition switch on.
- 3) Release the adjuster switch (1), 3 to 5 seconds after turning the ignition switch on.
- 4) Press the adjuster switch (1) twice (within 1 second).
→ Reset



I718H1930051-01

Time	Ignition switch	Adjuster switch (1)
0	OFF	PUSH
•	ON	
•		
3 sec.		
•		
5 sec.		Release
•		
•		Push
•		Push→Reset
10 sec.		

I718H1930006-01

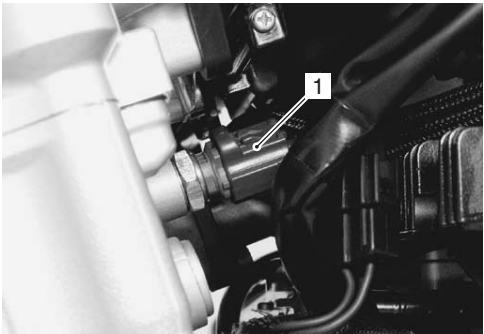
- 5) Pointer will return to the starting point right after the completion of the operation. In the case of the pointer not returning to the proper position after doing above, replace the combination meter unit. Refer to “Combination Meter Removal and Installation (Page 9C-4)”.

Engine Coolant Temperature Indicator Light Inspection

B718H19306029

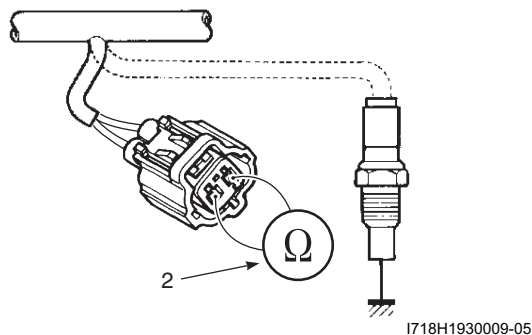
Inspect the engine coolant temperature indicator light in the following procedures:

- 1) Disconnect the ECT sensor coupler (1).



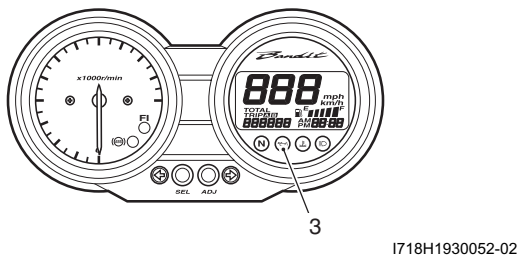
I718H1930059-01

- 2) Connect the variable resistor (2) between the terminals.



- 3) Turn the ignition switch ON.
- 4) Check the LED operations when the resistance is adjusted to the specified values.
- If either one or all indications are abnormal, replace the combination meter with a new one. Refer to "Combination Meter Removal and Installation (Page 9C-4)".

Resistance	LED (3)	Water temperature
2.45 kΩ and over	—	19 °C and below
Approx. 0.811 kΩ	—	Approx. 50 °C
Approx. 0.1 kΩ ON	Flicker	120 – 139 °C
0 Ω (Jumper wire)	Flicker	140 °C and over



- 5) Connect the ECT sensor coupler.

Engine Coolant Temperature Removal and Installation

B718H19306018

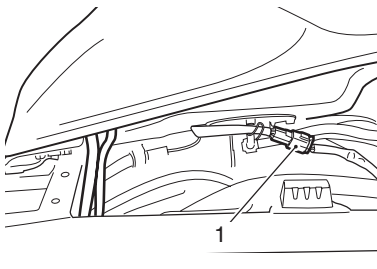
Refer to "ECT Sensor Removal and Installation in Section 1C (Page 1C-2)".

Fuel Level Indicator Inspection

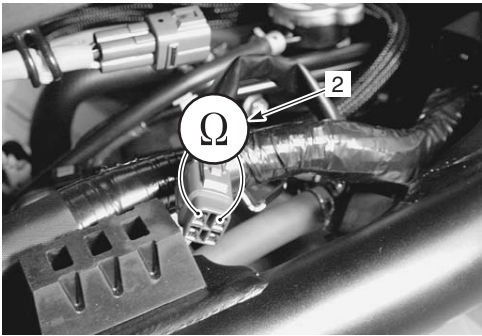
B718H19306030

Inspect the fuel level indicator in the following procedures:

- 1) Support the motorcycle with the center stand.
- 2) Lift and support the fuel tank. Refer to "Fuel Tank Removal and Installation in Section 1G (Page 1G-9)".
- 3) Disconnect the fuel level gauge coupler (1).



- 4) Connect variable resistor (2) between the R/B and B/W lead wires from the wire harness.



- 5) Turn the ignition switch ON.
- 6) Check the display of fuel level indicator (LCD) as shown.
If any abnormality is found, replace the combination meter with a new one. Refer to “Combination Meter Removal and Installation (Page 9C-4)”.

NOTE

It takes approx. 30 seconds that the fuel level indicator indicates the detected fuel level.

Resistance	Thermistor	Fuel level meter
—	ON	
More than 212 Ω	OFF	
129 – 212 Ω	OFF	
76 – 160 Ω	OFF	
36 – 93 Ω	OFF	
Less than 36 Ω	OFF	

I718H1930060-01

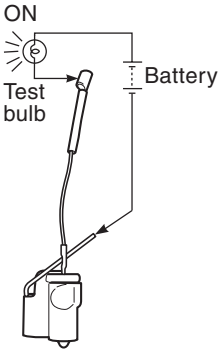
- 7) Connect the fuel level gauge coupler and reinstall the fuel tank.
Refer to “Fuel Tank Removal and Installation in Section 1G (Page 1G-9)”.

Fuel Level Indicator Switch (Thermistor) Inspection

B718H19306031

Inspect the fuel level indicator switch in the following procedures:

- 1) Remove the fuel pump. Refer to “Fuel Pump Assembly / Fuel Level Gauge Removal and Installation in Section 1G (Page 1G-11)”.
- 2) Remove the thermistor from the fuel pump. Refer to “Fuel Pump Disassembly and Assembly in Section 1G (Page 1G-12)”.
- 3) Connect 12 V battery and test bulb (12 V, 3.4 W) to the fuel level indicator switch as shown in the figure. The bulb should come on after one minutes if the switch is in good condition.

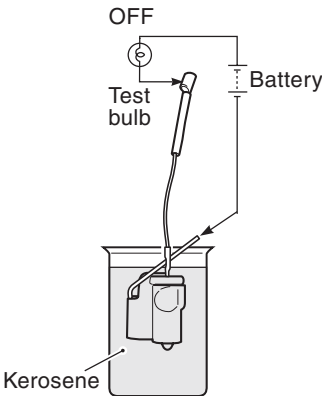


I718H1930013-04

- 4) When the switch is immersed in kerosene, the bulb should go out. If the bulb remains lit, replace the unit with a new one.

NOTE

- When the bulb turns off, immediately pick up the switch from kerosene.
- After the check has been completed, wash the switch with gasoline.



I718H1930014-03

- 5) Reinstall the removed parts. Refer to “Fuel Pump Disassembly and Assembly in Section 1G (Page 1G-12)”.

Fuel Level Gauge Inspection

B718H19306006

Inspect the fuel level gauge in the following procedures:

- 1) Remove the fuel level gauge. Refer to "Fuel Pump Assembly / Fuel Level Gauge Removal and Installation in Section 1G (Page 1G-11)".
- 2) Measure the resistance at each fuel level gauge in float position. If the resistance is incorrect, replace fuel level gauge with a new one.

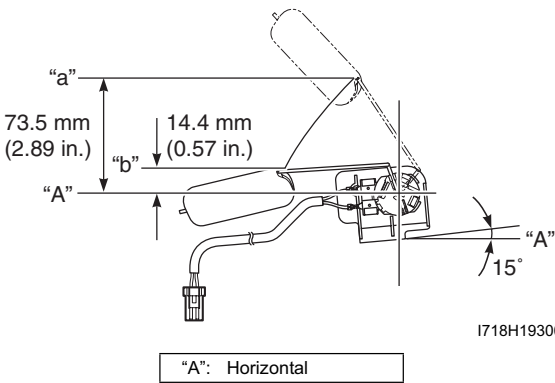
Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Resistance (Ω)

Float position	Resistance
Full "a"	Approx. 10 Ω
Empty "b"	Approx. 216 Ω



I718H1930061-01

- 3) Install the fuel level gauge. Refer to "Fuel Pump Assembly / Fuel Level Gauge Removal and Installation in Section 1G (Page 1G-11)".

Speedometer Inspection

B718H19306020

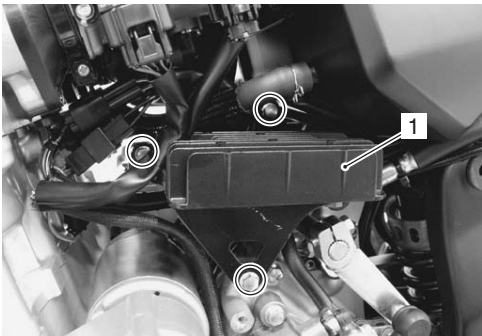
If the speedometer, odometer or tripmeter does not function properly, inspect the speed sensor and the coupler connections. If the speed sensor and coupler connections are OK, replace the combination meter unit with a new one. Refer to "Combination Meter Removal and Installation (Page 9C-4)".

Speed Sensor Removal and Installation

B718H19306021

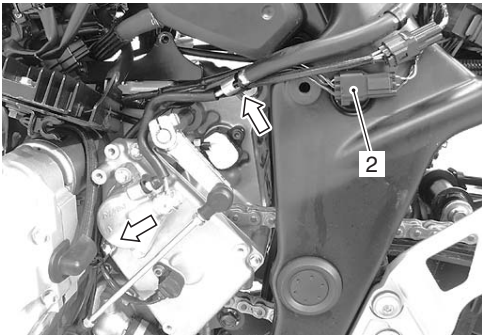
Removal

- 1) Remove the seat. Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Remove the left frame cover. Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 3) Remove the engine sprocket outer cover. Refer to "Engine Sprocket Removal and Installation in Section 3A (Page 3A-2)".
- 4) Move the regulator/rectifier assembly (1) by removing the regulator/rectifier bracket bolts.



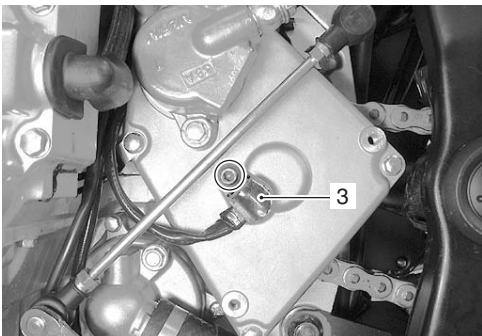
I718H1930056-01

- 5) Disconnect the speed sensor coupler (2).
- 6) Release the speed sensor lead wire from the clamps.



I718H1930025-02

- 7) Remove the speed sensor (3).



I718H1930024-03

9C-9 Combination Meter / Fuel Meter / Horn:

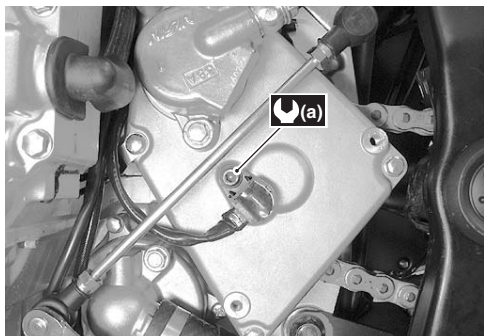
Installation

Install the speed sensor in the reverse order of removal. Pay attention to the following points:

- Tighten the speed sensor mounting bolt to the specified torque.

Tightening torque

Speed sensor bolt (a): 6.5 N·m (0.65 kgf-m, 4.7 lb-ft)



I718H1930044-03

- Route the speed sensor lead wire. Refer to "Wiring Harness Routing Diagram in Section 9A (Page 9A-8)".

Speed Sensor Inspection

B718H19306022


Inspect the speed sensor in the following procedures:

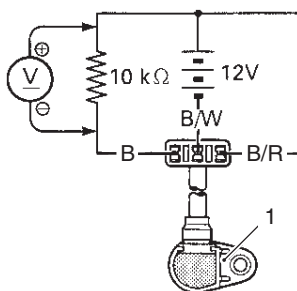
- 1) Remove the speed sensor. Refer to "Speed Sensor Removal and Installation (Page 9C-8)".
- 2) Connect a 12 V battery (between B and B/W), 10 k Ω resistor (between B/R and B) and multi-circuit tester (tester (+) probe to B and tester (-) probe to B/R) as shown.

Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Voltage ()



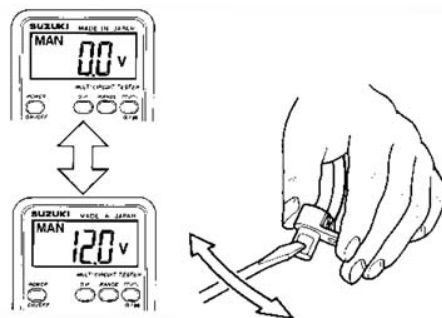
I649G1930016-02

1. Speed sensor

- 3) Move a screwdriver back and forth across the pick-up surface of the speed sensor. The voltage readings should cycle as follows (0 V → 12 V or 12 V → 0 V). If the voltage reading does not change, replace the speed sensor with a new one.

NOTE

While testing, the highest voltage reading should be the same as the battery voltage (12 V).



I649G1930017-01

Oil Pressure Indicator Inspection

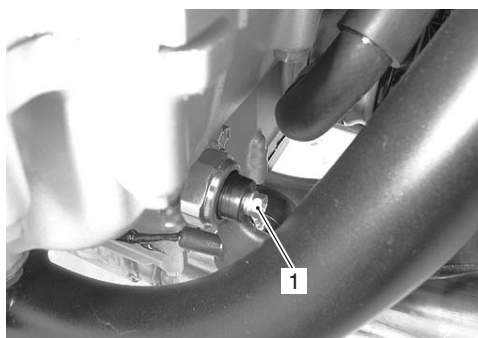
B718H19306023

Inspect the oil pressure indicator in the following procedures:

NOTE

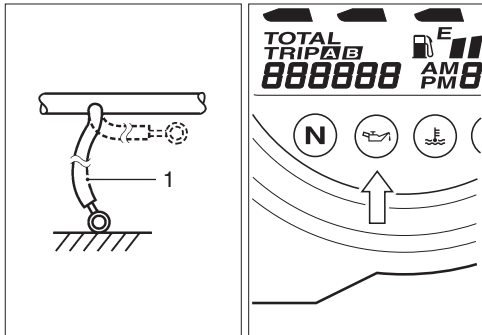
Before inspecting the oil pressure switch, check if the engine oil level is correct. Refer to "Engine Oil and Filter Replacement in Section 0B (Page 0B-10)".

- 1) Disconnect the oil pressure switch lead wire (1) from the oil pressure switch.



I718H1930039-01

- 2) Turn the ignition switch ON.
- 3) Check if the oil pressure indicator (LED) will light up when grounding the lead wire (1).
If the oil pressure indicator does not light up, replace the combination meter unit with a new one after checking the connection of couplers.



I718H1930036-02

Oil Pressure Switch Removal and Installation

B718H19306024

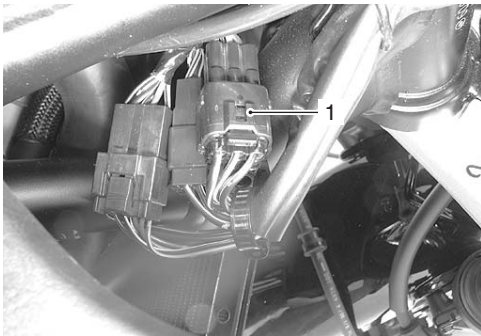
Refer to "Oil Pressure Switch Removal and Installation in Section 1E (Page 1E-7)".

Ignition Switch Inspection

B718H19306025

Inspect the ignition switch in the following procedures:

- 1) Remove the right frame head cover. (GSF1250/A)
Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Disconnect the ignition switch coupler (1).



I718H1930026-05

- 3) Inspect the ignition switch for continuity with a tester.
If any abnormality is found, replace the ignition switch with a new one.

Special tool

Tester : 09900-25008 (Multi-circuit tester set)

Tester knob indication

Continuity (••)))

Color Position	B/R	B/O	G/B	B/W	B/G	Br/B
ON	○	○	○	○	○	○
OFF						
LOCK						
P	○					○

I649G1180025-01

- 4) After finishing the ignition switch inspection, reinstall the removed parts.

Ignition Switch Removal and Installation

B718H19306026

Refer to "Ignition Switch Removal and Installation in Section 1H (Page 1H-9)".

Horn Inspection

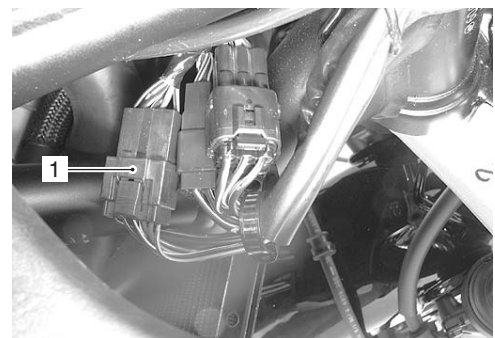
B718H19306027

NOTE

If the horn sound condition is normal, it is not necessary to inspect the horn button continuity.

Horn Button Inspection

- 1) Remove the right frame head cover. (GSF1250/A)
Refer to "Exterior Parts Removal and Installation in Section 9D (Page 9D-6)".
- 2) Disconnect the left handlebar switch coupler (1).



I718H1930045-01

9C-11 Combination Meter / Fuel Meter / Horn:



3) Inspect the horn button for continuity with a tester.
If any abnormality is found, replace the left handlebar switch assembly with a new one.
Refer to "Handlebar Removal and Installation in Section 6B (Page 6B-3)".

Special tool

 : 09900-25008 (Multi-circuit tester set)

Tester knob indication

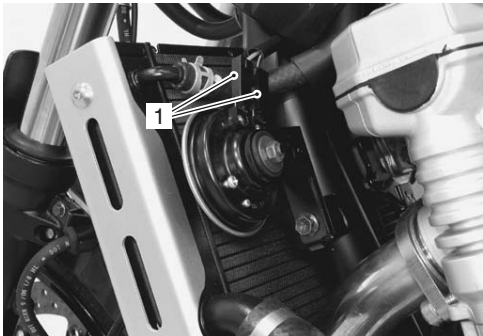
Continuity (●))

Color Position	B/BI	B/W
•		
PUSH		

I718H1930028-03

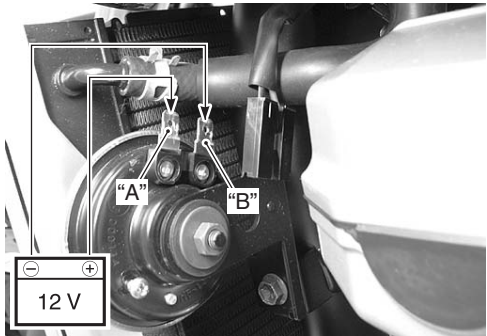
Horn Inspection

1) Disconnect the horn couplers (1).



I718H1930030-01

2) Connect a 12 V battery to terminal "A" and terminal "B". If the sound is not heard from the horn, replace the horn with a new one.



I718H1930040-02

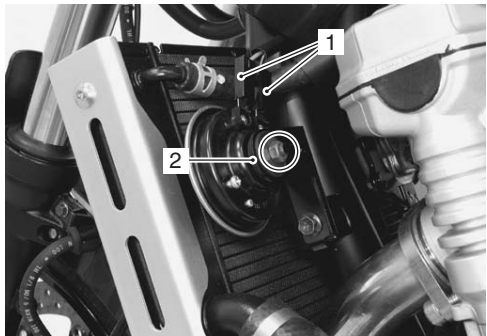
3) Connect the horn coupler.

Horn Removal and Installation

B718H19306028

Removal

- 1) Disconnect the horn couplers (1).
- 2) Remove the horn (2) by removing the mounting bolt.



I718H1930031-03

Installation

Install the horn in the reverse order of removal.

Specifications

Service Data

B718H19307001

Wattage

Unit: W

Item	Specification	
	GSF1250/A	GSF1250S/SA
Speedometer light	LED	←
Tachometer light	LED	←
Turn signal indicator light	LED x 2	←
High beam indicator light	LED	←
Neutral position indicator light	LED	←
Oil pressure indicator light	LED	←
FI indicator light	LED	←
Engine coolant temp. indicator light	LED	←
ABS indicator light (GSF1250A/SA only)	LED	←

Tightening Torque Specifications

B718H19307002

Fastening part	Tightening torque			Note
	N·m	kgf·m	lb·ft	
Speed sensor bolt	6.5	0.65	4.7	☞ (Page 9C-9)


Reference:

For the tightening torque of fastener not specified in this section, refer to "Tightening Torque Specifications in Section 0C (Page 0C-7)".

Special Tools and Equipment

Special Tool

B718H19308001

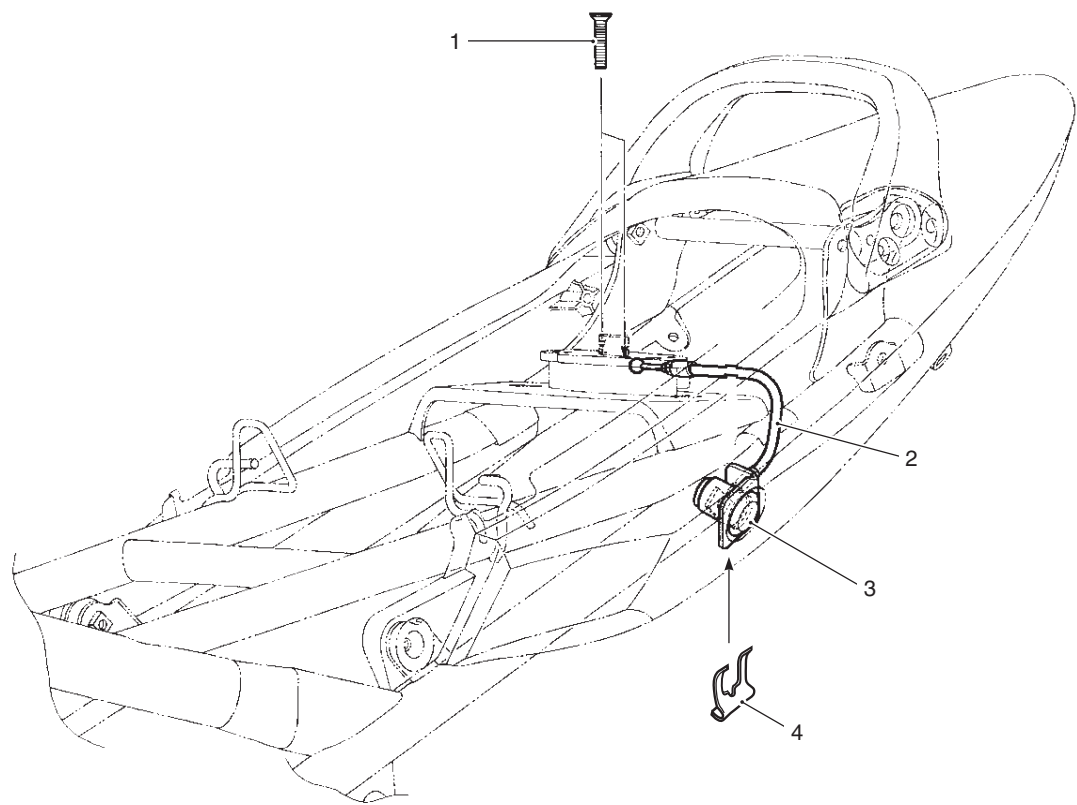
09900-25008 Multi-circuit tester set ☞ (Page 9C-8) / ☞ (Page 9C-9) / ☞ (Page 9C-10) / ☞ (Page 9C-11)		
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Exterior Parts

Schematic and Routing Diagram

Seat Lock Cable Routing Diagram

B718H19402001



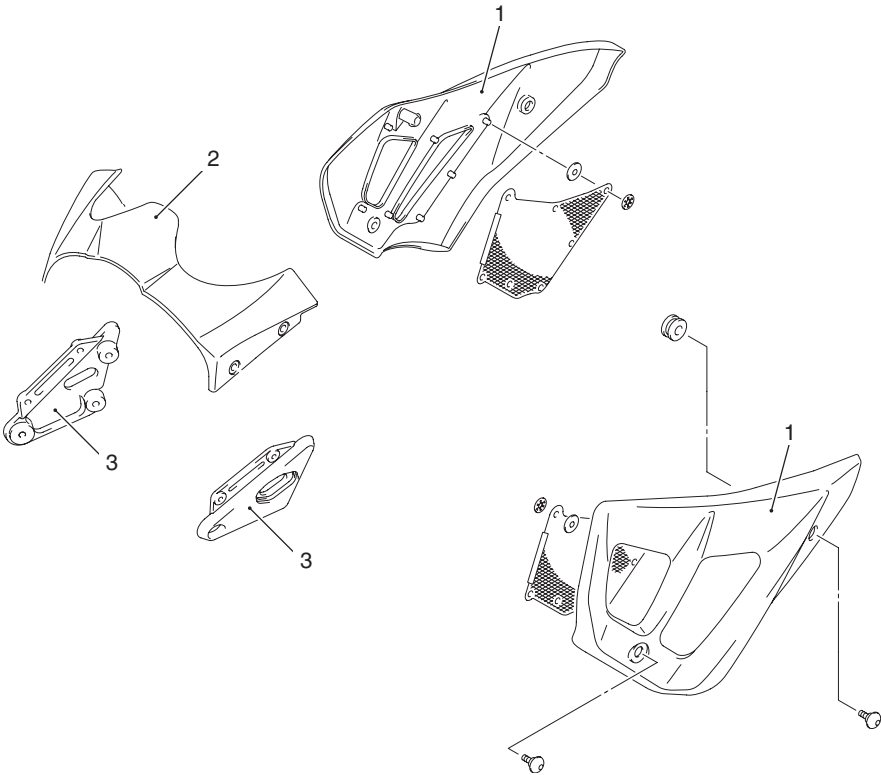
I718H1940028-01

1. Screw	2. Seat lock cable	3. Seat lock	4. Plate
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Repair Instructions

Exterior Parts Construction
GSF1250/A

B718H19406006

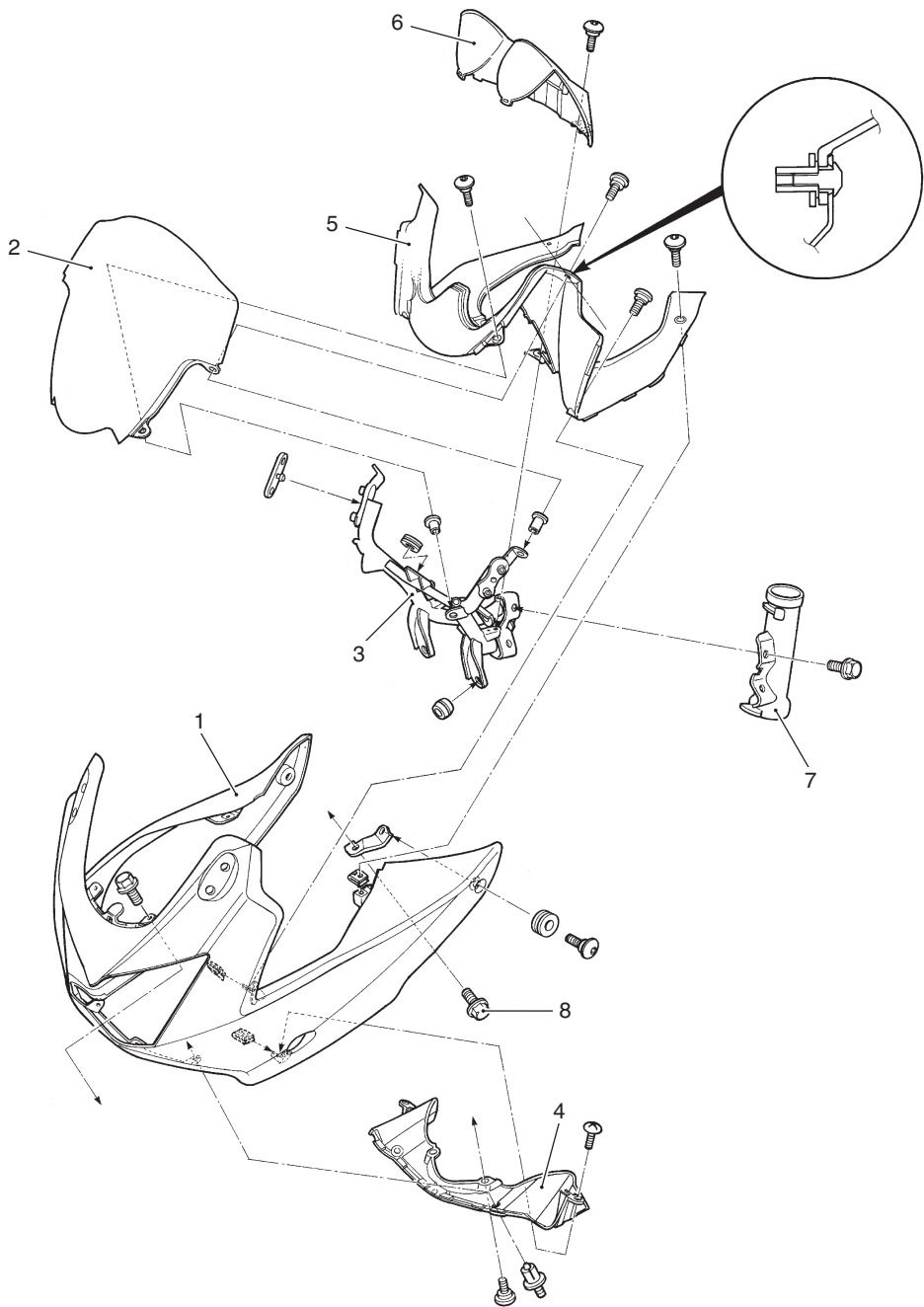


I718H1940033-01

1. Frame head cover	2. Headlight housing cover	3. Headlight housing stay
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9D-3 Exterior Parts:

GSF1250S/SA

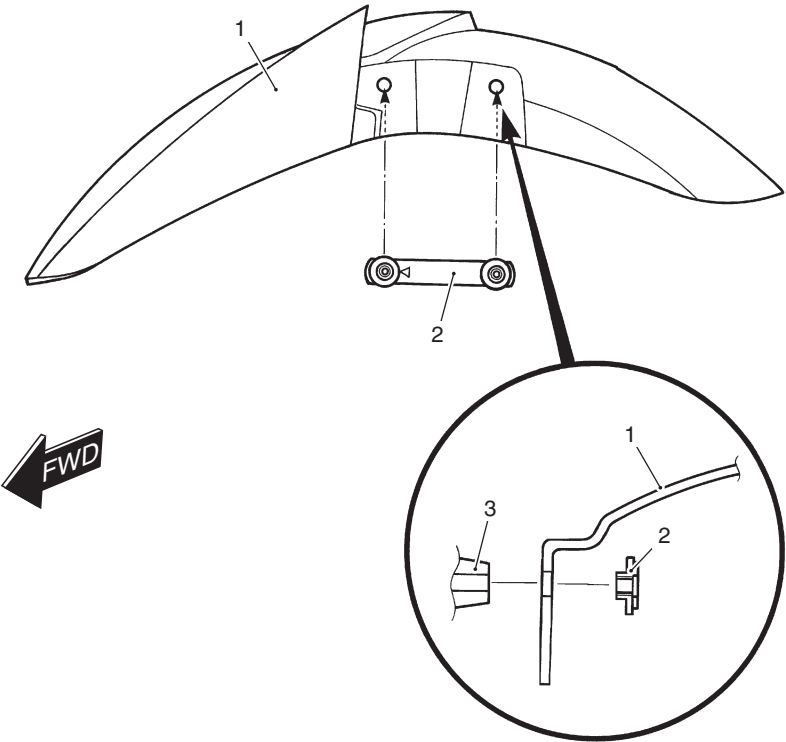


I718H1940026-02

1. Cowling body	3. Cowling brace	5. Upper panel	7. Head pipe
2. Wind screen	4. Lower panel	6. Meter panel lid	8. Bolt (Except E-33)

Front Fender Construction

B718H19406007

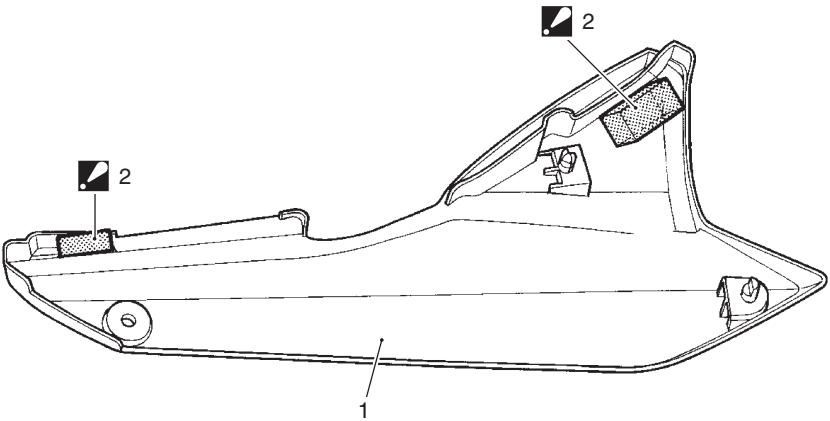



1. Front fender	2. Fender plate nut	3. Front fork
-----------------	---------------------	---------------

I718H1940029-01

Frame Cover Cushion Construction

B718H19406002

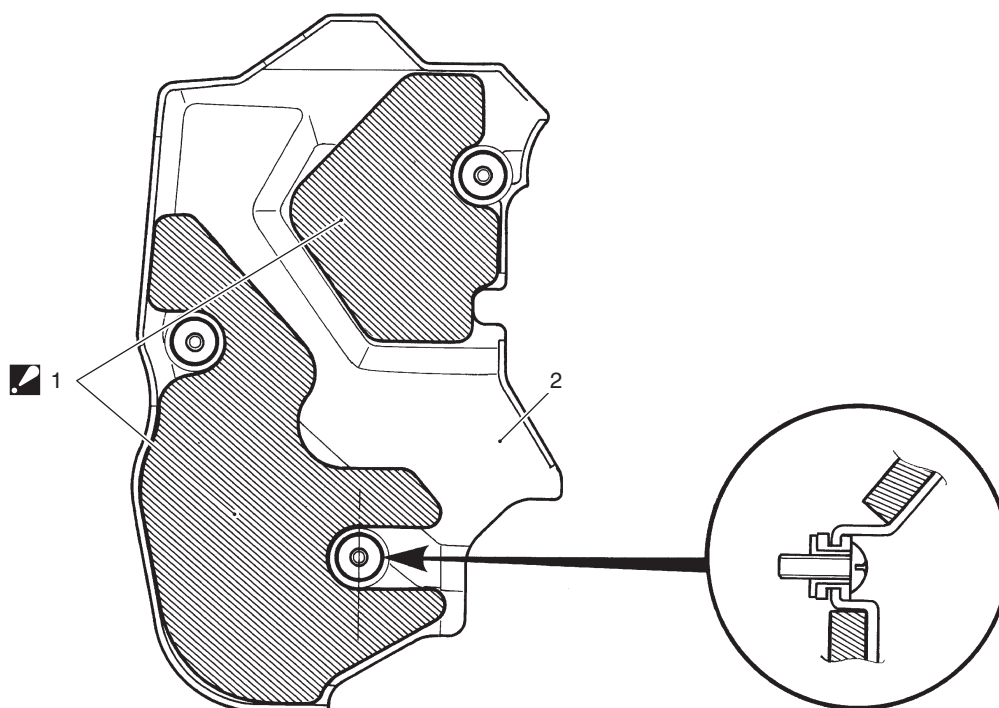


1. Frame cover	 2. Cushion : Clean an adhesive surface before adhering the tape cushion.
----------------	---

I718H1940030-01

Engine Sprocket Outer Cover Cushion

B718H19406008



I718H1940031-01

1. Engine sprocket outer cover cushion
: Clear adhesive surface before adhering the tape cushion.

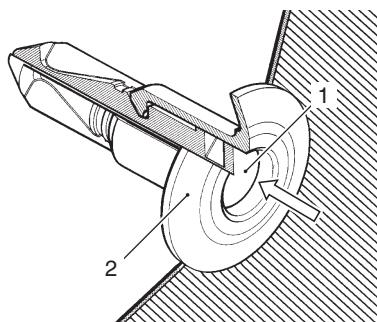
2. Engine sprocket outer cover

Fastener Removal and Installation

B718H19406003

Removal

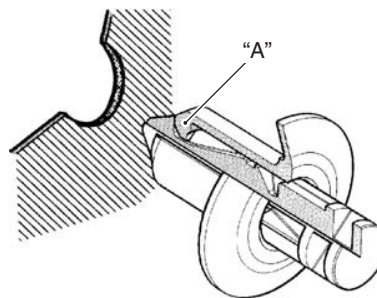
- 1) Depress the head of fastener center piece (1).
- 2) Pull out the fastener (2).



I649G1940005-01

Installation

- 1) Let the center piece stick out toward the head so that the pawls "A" closes.



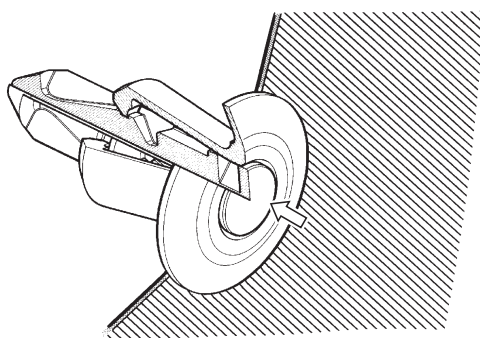
I649G1940006-01

- 2) Insert the fastener into the installation hole.

NOTE

To prevent the pawl "A" from damage, insert the fastener all the way into the installation hole.

- 3) Push in the head of center piece until it becomes flush with the fastener outside face.



I649G1940007-01

Exterior Parts Removal and Installation

B718H19406004

Seat

Removal

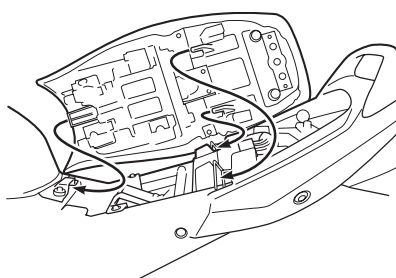
- 1) Unlock the seat with the ignition key.
- 2) Remove the front and rear seats as an assembly.



I718H1940004-01

Installation

Slide the seat hooks into the seat hook retainers and push down firmly until the seat snaps into the locked position.



I718H1940032-03

Frame Cover

Removal

Remove the frame covers (1), left and right.



I718H1940005-02

"A": Hooked point

Installation

Install the frame covers in the reverse order of removal.

Pillion Rider Handle and Seat Tail Cover

Removal

- 1) Remove the seat.
- 2) Remove the frame covers, left and right.
- 3) Remove the pillion rider handle (1).



I718H1940006-01

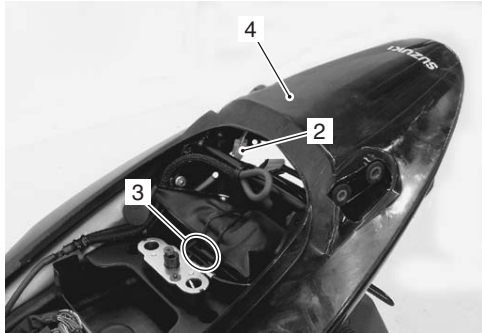
- 4) Remove the fasteners. Refer to "Fastener Removal and Installation (Page 9D-5)".



I718H1940007-01

9D-7 Exterior Parts:

- 5) Disconnect the brake light/taillight lead wire coupler (2).
- 6) Unhook the seat lock cable (3). Refer to "Seat Lock Cable Routing Diagram (Page 9D-1)".
- 7) Remove the seat tail cover (4).



I718H1940034-01

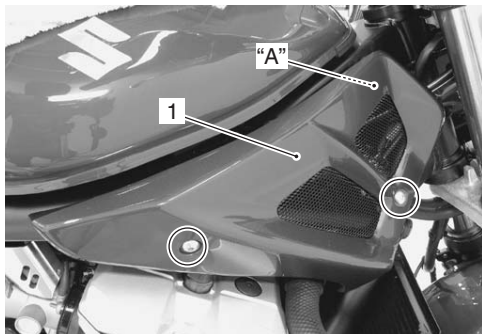
Installation

Install the seat tail cover and pillion rider handle in the reverse order of removal.

Frame Head Cover (GSF1250/A)

Removal

Remove the frame head covers (1), left and right.



I718H1940008-01

"A": Hooked point

Installation

Install the frame head covers in the reverse order of removal.

Headlight Housing Cover (GSF1250/A)

Removal

Remove the headlight housing cover (1).



I718H1940009-01

Installation

Install the headlight housing cover in the reverse order of removal.

Cowling and Cowling Brace (GSF1250S/SA)

Removal

- 1) Remove the caps.
- 2) Remove the rear view mirrors, left and right.



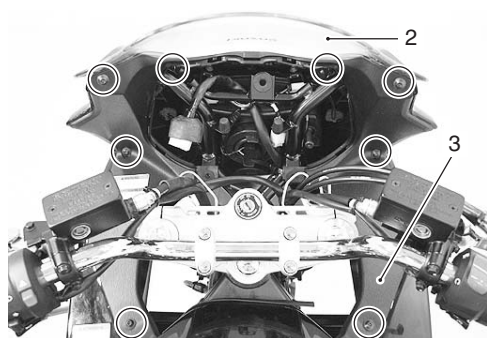
I718H1940011-01

- 3) Remove the combination meter assembly (1). Refer to "Combination Meter Removal and Installation in Section 9C (Page 9C-4)".



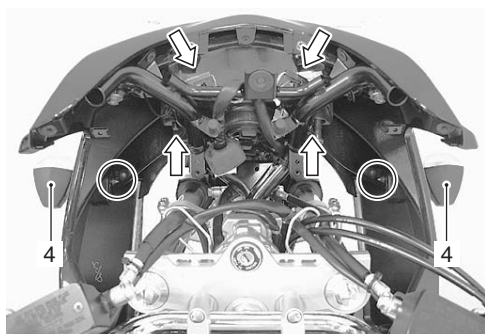
I718H1940013-01

4) Remove the wind screen (2) and upper panel (3).



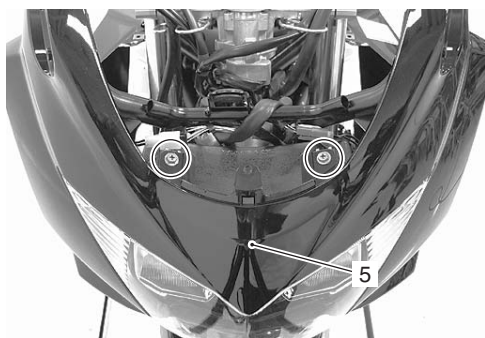
I718H1940012-01

5) Remove the turn signal lights (4), left and right. Refer to "Front Turn Signal Light Removal and Installation in Section 9B (Page 9B-9)".



I718H1940014-03

6) Remove the cowling (5) along with the lower panel (6).



I718H1940015-01



I718H1940016-02

7) Remove the lower panel (6) from the cowling (5).



I718H1940017-01

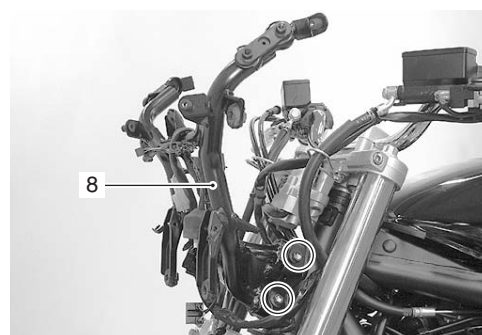
8) Disconnect the headlight and position light couplers.

9) Remove the headlight assembly (7).



I718H1940018-01

10) Remove the cowling brace (8).



I718H1940019-01

Installation

Install the cowling and cowling brace in the reverse order of removal. Pay attention to the following point:

- After installing, be sure to inspect the headlight beam. Refer to "Headlight Beam Adjustment in Section 9B (Page 9B-5)".

Front Fender

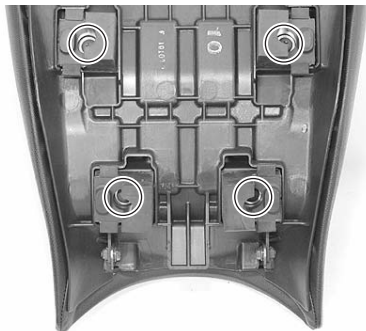
Refer to "Front Fork Removal and Installation in Section 2B (Page 2B-2)".

Seat Height Adjustment

B718H19406005

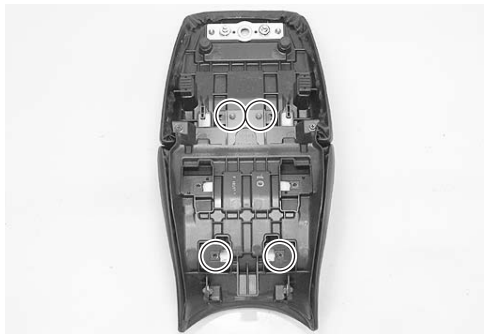
Adjust the seat height in the following procedures:

- 1) Remove the seat assembly. Refer to “Exterior Parts Removal and Installation (Page 9D-6)”.
- 2) Remove the seat height adjusting dampers.



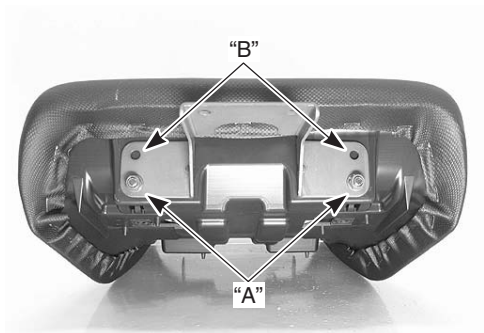
I718H1940020-01

- 3) Remove the front seat from the rear seat.



I718H1940021-02

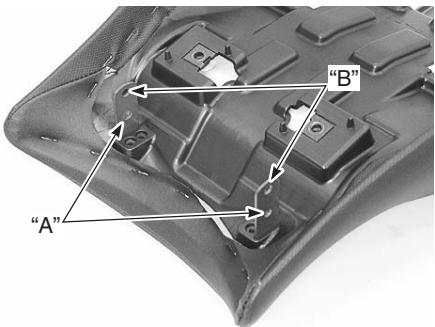
- 4) Adjust the seat height adjuster position “A” or “B”.



I718H1940022-01

“A”: For low (Normal) position	“B”: For high position
--------------------------------	------------------------

- 5) Reinstall the front seat and adjust the seat height adjuster position “A” or “B”.



I718H1940023-01

“A”: For low (Normal) position	“B”: For high position
--------------------------------	------------------------

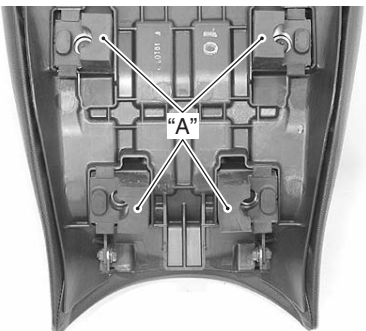
- 6) Install the seat height adjusting dampers.

NOTE

Dampers are used in two ways “A” or “B”. Pay attention to the direction of dampers when installing them.

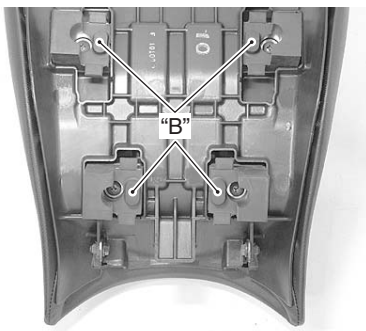
CAUTION

Position of adjuster and direction of dampers must be unified either “A” or “B”.



I718H1940024-01

“A”: For low (Normal) position



I718H1940025-01

“B”: For high position

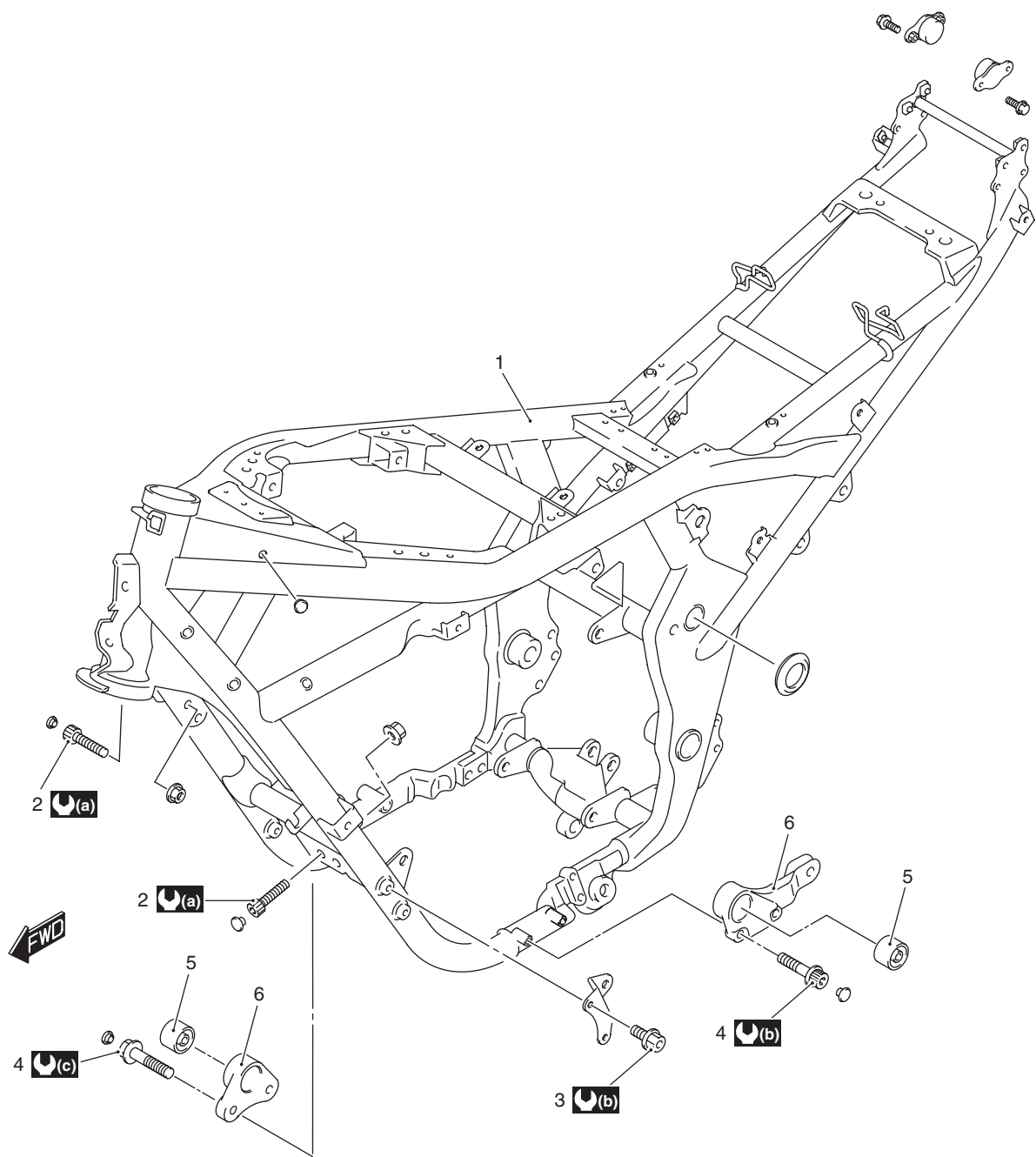
- 7) Reinstall the seat assembly. Refer to “Exterior Parts Removal and Installation (Page 9D-6)”.

Body Structure

Repair Instructions

Body Frame Construction

B718H19506001



I718H1950003-04

1. Frame	4. Bracket mounting bolt	ⓐ : 50 N-m (5.0 kgf-m, 36.0 lb-ft)
2. Frame down tube bolt	5. Engine mounting bracket bushing	ⓑ : 23 N-m (2.3 kgf-m, 16.5 lb-ft)
3. Engine mount No.1 bracket bolt	6. Engine mounting No.2 bracket	

Engine Mounting Bracket Bushing Replacement

B718H19506002

Replace the engine mounting bracket bushing if necessary, as shown in the body frame construction. Refer to “Body Frame Construction (Page 9E-1)”.

Engine Mount Bushing Replacement

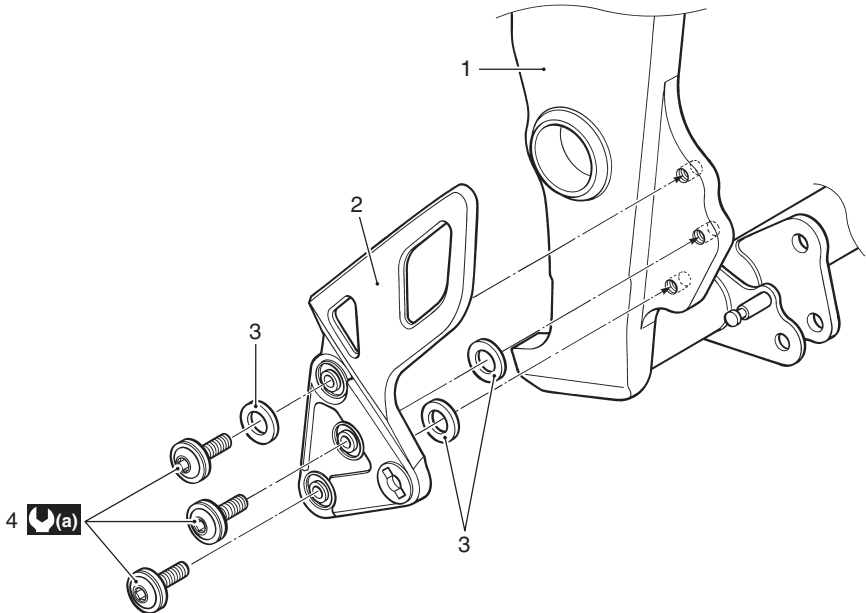
B718H19506003

Replace the engine mount bushing if necessary, as shown in the body frame construction. Refer to “Body Frame Construction (Page 9E-1)”.

Front Footrest Bracket Construction

B718H19506005

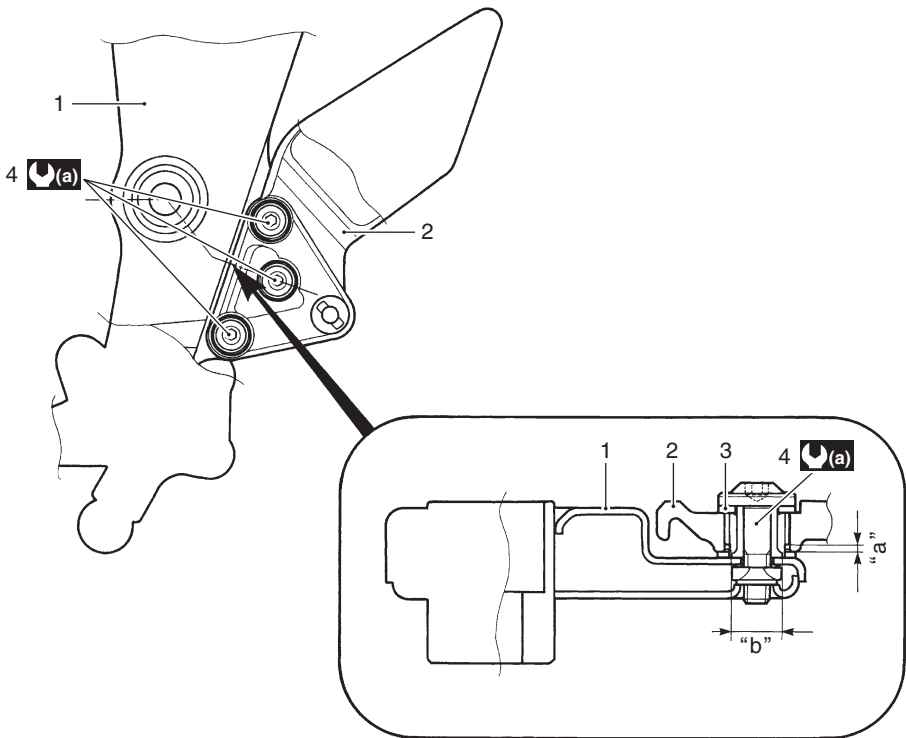
GSF1250/S



I718H1950001-04

1. Frame	2. Footrest bracket	3. Washer	4. Bolt	(a) : 23 N·m (2.3 kgf·m, 16.5 lb·ft)
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GSF1250A/SA

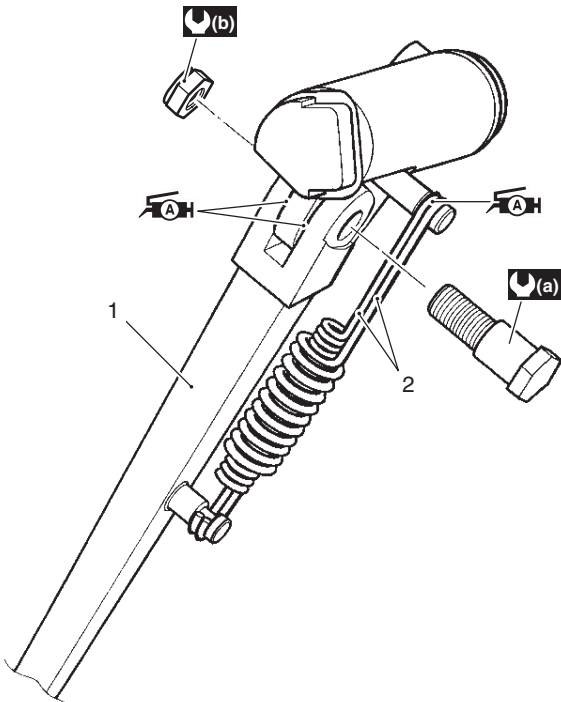


I718H1950004-02




1. Frame	3. Washer	(a) : 23 N·m (2.3 kgf·m, 16.5 lb·ft)	"b": 16.4 mm (0.65 in)
2. Footrest bracket	4. Bolt	"a": 2.0 mm (0.08 in)	

Side-stand Construction

B718H19506006



I718H1950005-05

1. Side-stand	 (a) : 50 N·m (5.0 kgf-m, 36.0 lb-ft)	 (A) : Apply grease to sliding surface.
2. Spring	 (b) : 40 N·m (4.0 kgf-m, 29.0 lb-ft)	

9E-4 Body Structure:

Side-stand Removal and Installation

B718H19506007

Removal

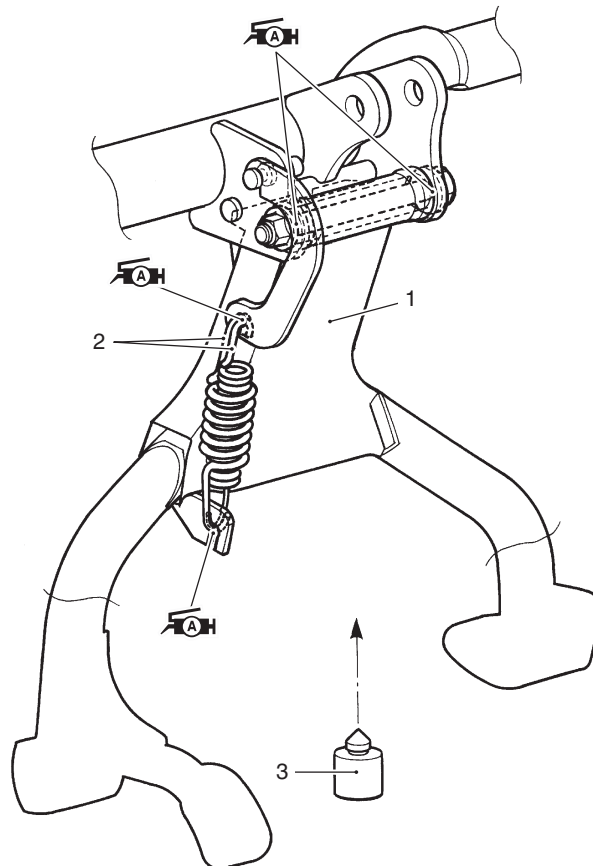
- 1) Support the motorcycle with the center stand.
- 2) Remove the side-stand as shown in the side-stand construction. Refer to "Side-stand Construction (Page 9E-3)".

Installation


Install the side-stand as shown in the side-stand construction. Refer to "Side-stand Construction (Page 9E-3)".

Center Stand Construction

B718H19506008



I718H1950002-02

1. Center stand	2. Spring	3. Center stand cushion	 : Apply grease to sliding surface.
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Center Stand Removal and Installation

B718H19506009

Removal

- 1) Support the motorcycle using a jack.

CAUTION

Make sure that the motorcycle is supported securely.

- 2) Remove the center stand as shown in the center stand construction. Refer to "Center Stand Construction (Page 9E-4)".

Installation

Install the center stand as shown in the center stand construction. Refer to "Center Stand Construction (Page 9E-4)".

Specifications

Tightening Torque Specifications

B718H19507001

NOTE

The specified tightening torque is also described in the following.

“Body Frame Construction (Page 9E-1)”

“Front Footrest Bracket Construction (Page 9E-2)”

“Side-stand Construction (Page 9E-3)”

Reference:

For the tightening torque of fastener not specified in this section, refer to “Tightening Torque Specifications in Section 0C (Page 0C-7)”.

Special Tools and Equipment

Recommended Service Material

B718H19508001

NOTE

Required service material is also described in the following.

“Side-stand Construction (Page 9E-3)”

“Center Stand Construction (Page 9E-4)”

Prepared by
SUZUKI MOTOR CORPORATION

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