

1 Overview

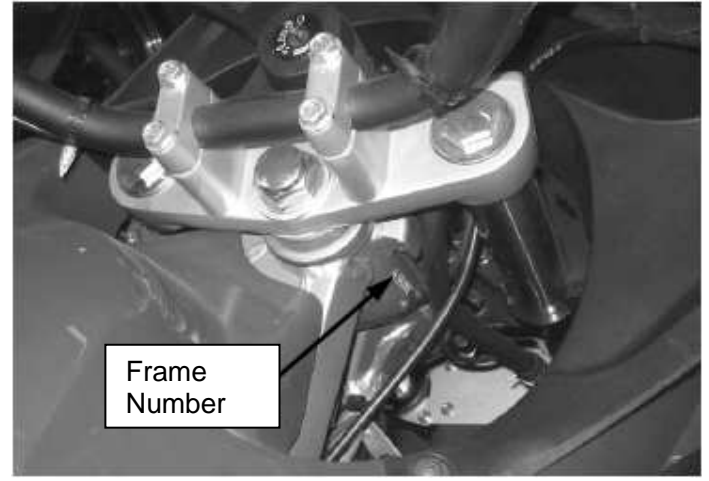
Engine Number Position	Bar Tool
Maintenance Precautions	Maintenance Period Table
Technical Data of Main Performance	Wiring Diagram
Standard Torque Values	Symbol Descriptions

Engine Number Position

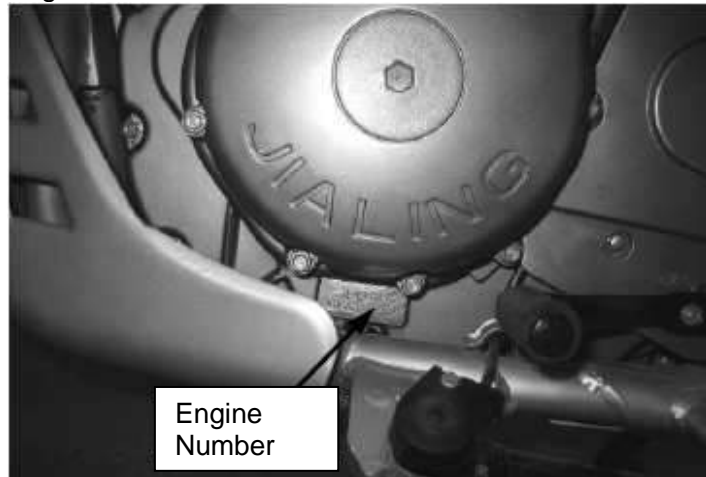
Photo of Complete Vehicle:



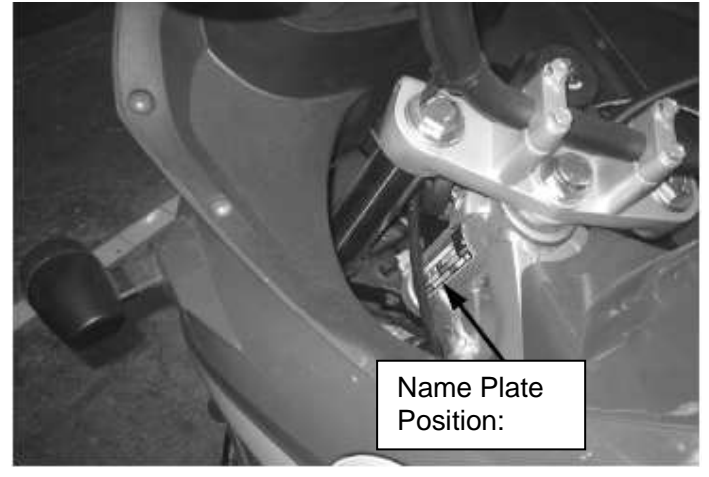
Frame Number Position:



Engine Number Position:

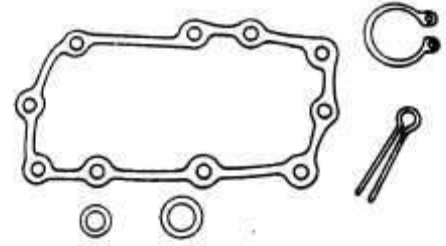


Name Plate



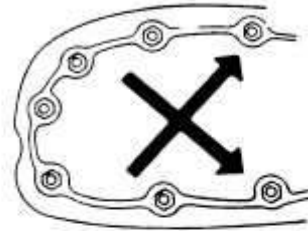
Maintenance Precautions

1. Use only the spare parts, fittings, lubricating oil and other auxiliary materials produced, recognized or recommended by China Jialing Industrial Co., Ltd. (Group). Using spare parts not conforming to the "Jialing" specifications or requirements may cause damage to the motorcycle.



2. Whenever reassembling after being disassembled, replace new washers, sealing members, etc.

3. While fastening bolts or nuts, proceed in diagonal crossing sequence to gradually screw down to the required torque for 2 to 3 tries.



4. After being disassembled, the parts and components should be cleaned before being inspected and measured.

To clean the spare parts, use only the cleaning fluid that is incombustible or has high ignition point.

Before reassembling, apply the specified lubricating oil to the sliding surface of the parts and components.

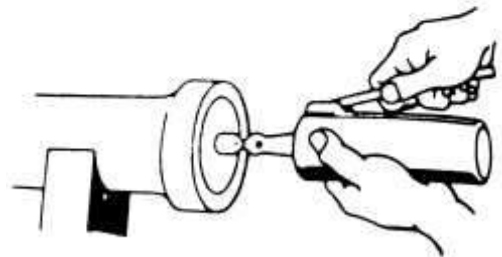
After reassembling, check whether all the spare parts are mounted properly by means of turning, moving and operating them.



5. To disassemble and assemble a motorcycle, special service tools (SST) and general-purpose tools must be used in accordance with relevant regulations.

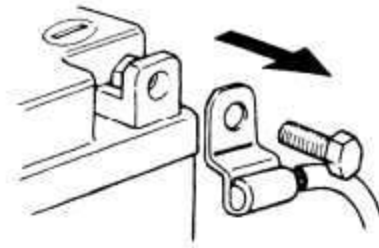


6. The specified or equivalent lubricating grease (oil) must be applied to or refilled into the specified locations.

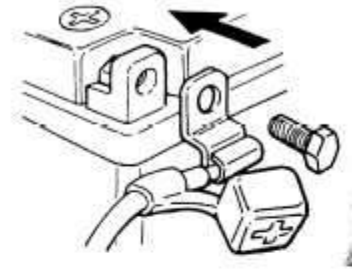


7. When 2 or more persons are carrying out the operation, they shall work with each other and pay attention to safety.





8. Before operating, always remove the negative (-) end of the battery first and take care to prevent the wrench or the like from touching the frame. After operating, reconfirm all the connections, fixings and junctions. If the battery is already removed, connect the positive (+) end first.

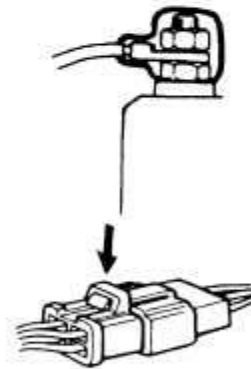


Confirm capacity!

9. In case the fuse is blown, check for the causes and, after being repaired, replace corresponding fuse as per the specified capacity.



10. The caps must be securely put on the terminals after the operation is complete.

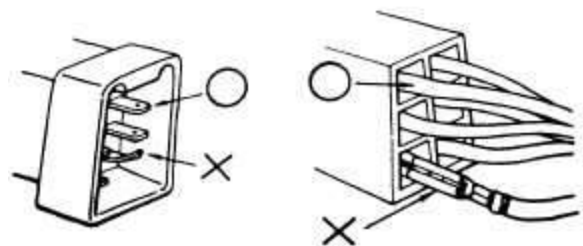


11. While disassembling a connector joints with lock, release the lock before proceeding with operation.

While disassembling a connector joints, hold the connector body without pulling the wire harness.



Before connecting the connector, the terminals shall be free from breaking or bending. Make sure the terminals are not too long or are falling off.



The connector shall be fully inserted in place.

For a connector with lock, confirm whether the lock is completely fixed.

Make sure the harness is not falling off

Make sure the plastic jacket of the connector is securely covering the connector without scaling off.

- Before connecting a connector, make sure the sleeve is not broken and the opening of the intermediate terminal is not too large.

The joint shall be fully inserted in place.

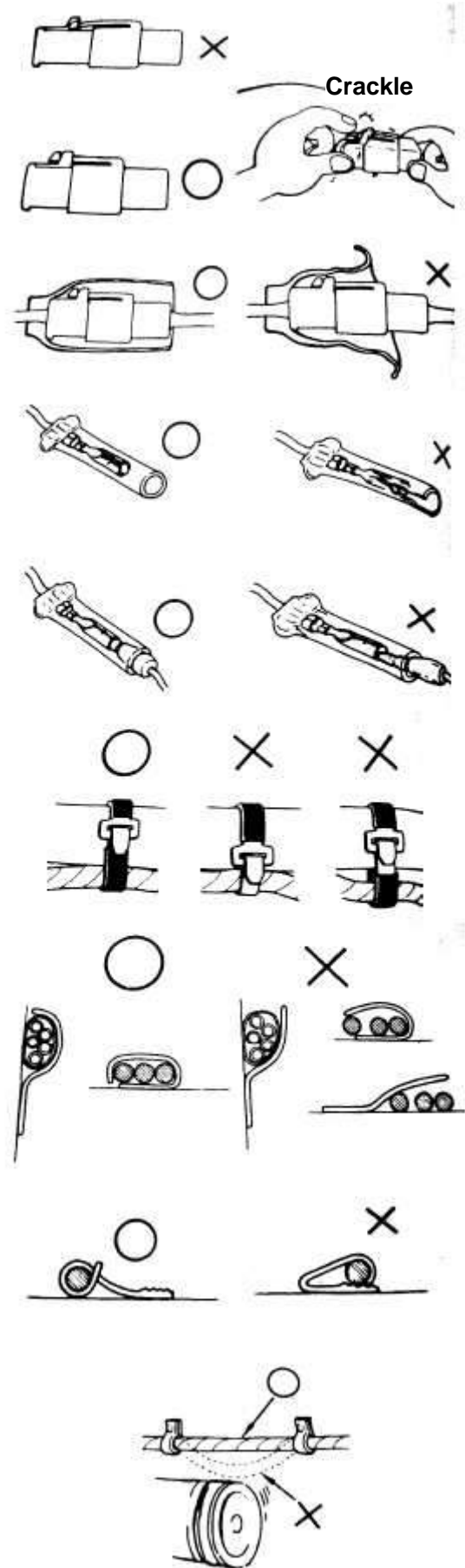
Make sure the plastic jacket is housing the terminal completely. The opening of the plastic jacket shall not face up.

- The harness fixing strap shall firmly button the specified position on the frame.

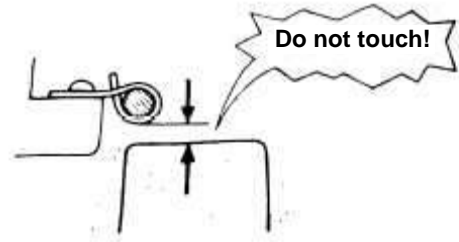
- The clamp shall reliably bite the wire harness.

In case of a welded clamp, it shall not bite the wire harness towards the weld mark.

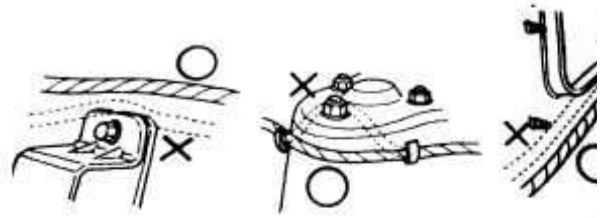
The wire harness shall be clamped at the position without contacting a rotating part or a removing element.



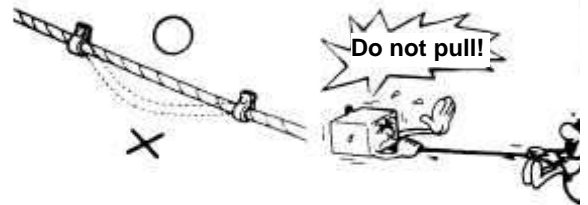
The wire harness shall be clamped at the position without contacting a part that generates high temperature.



The wire harness shall be clamped at the position without contacting the edge or sharp corners of the vehicle body.

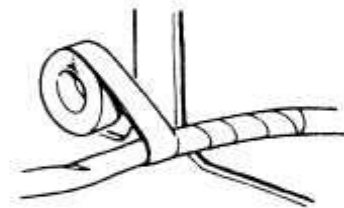


The wire harness shall be incapable of passing through the position contacting a bolt, a screw head or any front part.

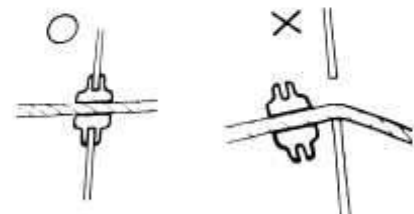


The wire harness shall not be slackened or be forcibly pulled.

If the wire harness has to contact the edge or sharp corner parts, the contacting part shall be protected with hose or adhesive tape.



In case of a wire harness with garland, it shall be reliably harnessed.



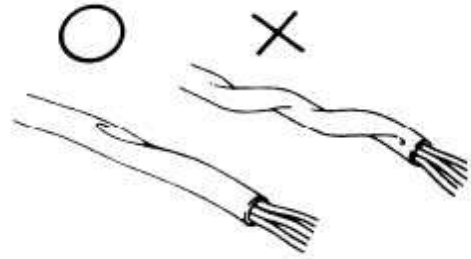
Do not damage the garnish of the wire harness. Once the wire harness is damaged, repair it by coiling with plastic adhesive tape.



While mounting parts and components, do not press the wire harness.



Do not mount wire harness with it twisted.



15. When wiring, note when turning it leftwards or rightwards to the limit position, the wire harness shall not be tightened up or slackened, and make sure there is no significant bending, pressing, intervening of marginal parts.



16. While using the test table, operate according to the maintenance manual after understanding the explanations in the instruction manual.

Have you learned by heart the method of application? Are the measurement range and polarity in accordance with the instruction manual?



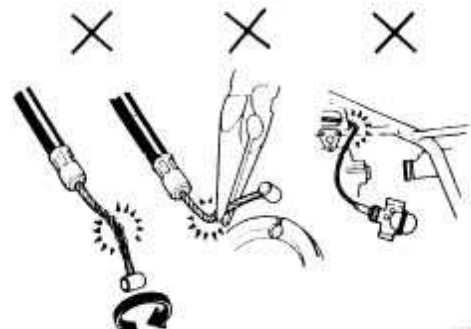
17. Do not drop or throw the parts and components.

18. In case of rust on the terminals, carry out connection operation after disposing it with abrasive paper, etc.

Rust must be eliminated!



19. Do not forcibly twist or forcefully bend the cable. Because a deformed or damaged cable is the cause of bad operation and damage.



Technical Data of Main Performance

	Item	Data
Dimension & Weight	Length	2,210mm
	Width	860mm
	Height	1,330mm
	Wheelbase	1,470mm
	Min. ground clearance	200mm
	Complete vehicle weight	Non-loaded weight: 195kg, Curb weight: 210kg, Fully loaded weight: 390kg
Vehicle body	Frame type	Cradle type
	Rake angle	28.5°
	Front suspension device	Sleeve type, spring & hydraulic composite damping
	Rear suspension device	Rocker arm type, adjustable spring & hydraulic composite central damping
	Front Tire size	100/90-19 57S
	Rear Tire size	130/80-17 65S
	Front wheel pressure	Normally loaded: 300 kPa, Fully loaded: 350 kPa
	Rear wheel pressure	Normally loaded: 360 kPa, Fully loaded: 450 kPa
	Front brake	Single disc type Diameter Φ300mm
	Rear brake	Single disc type Diameter Φ240mm
	Fuel tank volume	19L
Fuel grade	93#	
Engine	Mode	Single-cylinder water-cooling 4-valve top-mounted camshaft type 4-stroke engine
	Cylinder bore × Stroke	94mm × 85mm
	Cylinder displacement	589.9cc
	Compression ratio	9.7:1
	Max. power	28.5kw/6000rpm
	Max. torque	50N.m/4500rpm
	Valve clearance (cold)	IN: 0.09-0.14, EX: 0.17-0.22
	Valve driving gear	Chain drive
	Air filter	Oilpaper filter
	Cooling method	Water-cooling
	Cooling water charging volume	1.2L
	Crankshaft balance system	Balance shaft
	Lubrication method	Pressure / Splash
	Fuel pump type	Secondary cycloid
	Engine oil grade	10W/40 (SG Grade)
	Engine oil charge volume	2.3L
	Engine oil filter element	Oilpaper filter
	Electric motor starting	Engine starting
	Idle speed	1500±150r/min
	Net weight of engine	49kg

	Item	Data
Driving system	Clutch	Wet clutch, coil clutch, paper friction wafer
	Clutch operating system	Manual mechanical
	Variable speed gear	5-speed constant mesh
	Primary reduction ratio	2.345
	Transmission gear ratio	I 2.571 II 1.647 III 1.200 IV 0.957 V 0.800
	Final reduction ratio	3.000
	Gear shifting mode	Left foot operated to and back type Sequence: I—N— II —III— IV—V
Electrical system	Electric generator	330w/5000rpm, permanent magnet AC magneto
	Accumulator capacity	12V 14A.h
	Power supply system	DC power supply, and the electric generator is only used to recharge the accumulator
	Fusible cutout	30A
	Spark plug	Chinese model NHSP B8RC, Japanese model NGK CR8E
	Spark plug gap	0.7-0.8mm
	Ignition coil type	Open magnetic circuit
	Fuel supply mode	Electronically injection, ECU control
	Ignition mode	EMS
	Ignition advance angle	EMS
	Ignition timing	EMS
	Front lamp	2× 12V35W/35W
	Turn lamp	Front: 12V21W Rear: 12V21W
Stop / Rear-position lamp	12V21W/5W	

Standard Torque Values

ENGINE

Item	Quantity	Thread diameter (mm)	Torque value (N.m)	Thread locker
Cylinder head connecting bolt	12	6	10~14	
Cylinder bolt	4	10	48~52	
Valve adjusting screw nut	4	5	7~11	
Timing driven sprocket bolt	2	6	10~14	
Rocker-arm shaft cover	2	14	24~28	
Magneto flywheel fastening nut	1	18	171~189	LOCTITE 243
Clutch fastening nut	1	18	114~126	LOCTITE 243
Primary driving gear fastening nut	1	18	143~157	LOCTITE 243
Oil drain plug	1	14	28~32	
Crankshaft, main-shaft bearing baffle screw	5	6	8~12	LOCTITE 648
Screw M5*12 (GB/T818-2000)	3	5	6~9	LOCTITE 648
Gearshift drum plate connecting bolt	1	6	10~14	
Gearshift shaft set bolt	1	8	23~27	
Stud	7	6	8~12	LOCTITE 648
Stud	1	8	10~14	
Exhaust valve stud bolt	2	8	10~14	LOCTITE 243
Freewheel and flywheel connecting screw	6	8	23~27	LOCTITE 243
Stator connecting bolt	3	6	10~14	LOCTITE 648
Stator leads pressure plate bolt	2	6	10~14	LOCTITE 648
Spark Plug	1	10	14~18	
Driving primary driving gear fastening nut	3	6	10~14	LOCTITE 648
Liquid tube set bolt	1	8	10~14	
Water temperature sensor	1	12	27~33	
Tensioner plate fastening bolt	1	8	23~27	

Vehicle body

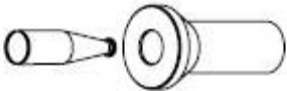
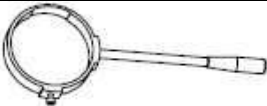









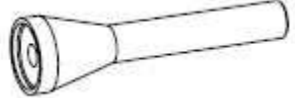
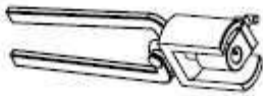
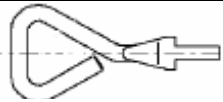
Item	Quantity	Thread diameter (mm)	Torque value (N.m)	Thread locker
Front wheel spindle	1	16	50~60	
Front vibration damper plate	4	6	8~12	
Rear wheel spindle nut	1	18	80~100	
Rear fork shaft nut	7	14	60~70	
Engine hanging bolt	5	10	39~49	
	8	8	25~35	
Steering handle set bolt	4	8	20~30	
Front fork vertical pipe cap nut	1	22	60~70	
Upper / lower connection plate set bolt	6	8	25~35	
Rear sprocket bolt	6	8	20~30	LOCTITE 243
Brake disc fastening nut	18	8	20~30	LOCTITE 243
Banister fastening nut	4	8	18~25	
Damping rocker arm bolt and nut	3	10	34~44	LOCTITE 243
Speed signal panel screw	3	4	0.5~1	LOCTITE 243
Front brake caliper screw	2	10	34~44	LOCTITE 243
	4	8	18~25	LOCTITE 243

In addition to the torque values of the important parts as listed above, the torque values for other standard fasteners are as follow:

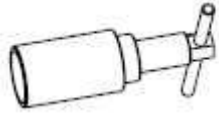



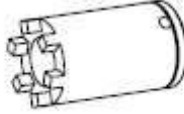
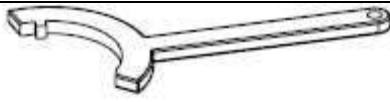

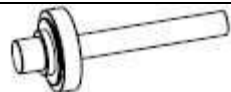

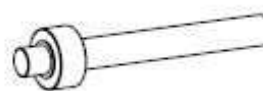


Name and dimensions	Torque value (N.m)
5mm bolt & nut	4.5 ~6
6mm bolt & nut	8 ~12
8mm bolt & nut	18 ~25
10mm bolt & nut	30 ~40
12mm bolt & nut	50 ~60
5mm Screw	3.5 ~5
6mm Screw	7 ~11
6mm spool bolt & nut	10 ~14
8mm spool bolt & nut	20 ~30
10mm spool bolt & nut	30 ~40

Bar Tool

Special Service Tools (SST)

Tool Name	Number	Diagram	Reference sections
Counter shaft oil seal guide	F02F000001		10
Rotor fastening tool	F02F000002		9
Sprocket fastening tool	F02F000003		
Variable-speed shaft oil seal guide	F02F000004		8、10
Piston sliding scale base	F02F000007		7
Oil shield press-in buck	F02F000008		7
Rocker-arm shaft locating tool	F02F000009		7
Fastening tool	F02F000010		2、8
Crankshaft oil seal press-in buck	F02F000012		8
Clutch control rod oil seal guide	F02F000013		8
Valve clearance adjusting tool	F02F000015		3、7
Clutch push rod assembler	F02F000026		2、8
Clutch push rod extractor	F02F000027		2、8
Tensioner locking key	F02F000028		3、7、9

(Continued) Special Service Tools (SST)

Rotor extractor	F02F000029		9
Valve dismantling tool			7
Gearshift drum oil seal guide	F02CF000001		10
Spoke nut fastening tool	X02F000001		3
Special socket for adjusting nut	X02F000002		12
Rear damper adjusting wrench	X02F000003		13
Special socket for thermoswitch	X02F000004		5
Bumper oil seal buck	X02F000005-1		13
Rocker arm oil seal buck I	X02F000005-2		13
Rocker arm oil seal buck II	X02F000005-3		13
Riveting gun			
Anchor ear pliers			

General-purpose Tools (Reference)

Tool Name	BRIEF DESCRIPTION	Reference sections
T-type wrench 8#	Ultra thin	
T-type wrench 9#		
T-type wrench 10#		
T-type wrench 12#		
T-type wrench 13#		
T-type wrench 14#		
T-type wrench 15#		
Hexagonal socket 8	1/4" joint, overall length 23mm	
Hexagonal socket 10	1/4" joint, overall length 23mm	
Hexagonal socket 13	1/4" joint, overall length 23mm	
Stud bolt socket M6	1/2" joint, overall length 55mm	
Stud bolt socket M8	1/2" joint, overall length 55mm	
Hexagonal socket 8	1/2" joint, overall length 38mm	
Hexagonal socket 8	1/2" joint, overall length 38mm, ultra thin	
Hexagonal socket 9	1/2" joint, overall length 38mm	
Hexagonal socket 10	1/2" joint, overall length 38mm	
Hexagonal socket 10	1/2" joint, overall length 125mm, connecting rod type	
	Ultra thin	
Hexagonal socket 11	1/2" joint, overall length 38mm	
Hexagonal socket 12	1/2" joint, overall length 38mm	
Hexagonal socket 13	1/2" joint, overall length 38mm	
Hexagonal socket 14	1/2" joint, overall length 38mm	
Hexagonal socket 14	1/2" joint, overall length 78mm, ultra thin	
Hexagonal socket 15	1/2" joint, overall length 38mm	
Hexagonal socket 16	1/2" joint, overall length 38mm	
Hexagonal socket 17	1/2" joint, overall length 38mm	
Hexagonal socket 18	1/2" joint, overall length 38mm	
Hexagonal socket 19	1/2" joint, overall length 38mm	
Hexagonal socket 21	1/2" joint, overall length 38mm	
Hexagonal socket 24	1/2" joint, overall length 45mm	
Hexagonal socket 27	1/2" joint, overall length 50mm	
Hexagonal socket 27	1/2" joint, overall length 78mm, ultra thin, Ex. diameter $\leq \phi 37$	
Hexagonal socket 29	1/2" joint, overall length 50mm	
Spark plug socket 16	1/2" joint, $\phi 22.5 \times 64$ mm	
Connecting rod	Joint, 12.7mm \times 12.7mm, length 100mm	
Connecting rod	Joint, 12.7mm \times 12.7mm, length 75mm	
L-type wrench	Joint, 12.7mm, length 260mm	
Hooke's universal joint	Joint, 12.7mm \times 12.7mm	
Hooke's universal joint	Joint, 6.3mm \times 6.3mm	
Steering joint	12.7mm turn to 6.3mm	
ratchet wrench 6.3	6.3mm joint	

(Continued) General-purpose Tools (Reference)

Ratchet wrench 12.7	12.7mm joint	
Ball point Allen wrench	Standard length, metric system, 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm, 9-Pc, 1 set	
Ball point Allen wrench	Shortened length, metric system, 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10mm, 9-Pc, 1 set	
Straight nose retainer pliers for shaft use	7"	
Straight nose retainer pliers for hollow use	7"	
Monkey wrench		
Needle nose pliers	6"	
Percussive screwdriver set		
Copper hammer		
Iron hammer		
Bakelite hammer		
Clearance gauge		
Small flashlight		
Tweezers		
Oil stone		
Torque wrench 7#	Measurement range 6-10 N.m	
Torque wrench 8#	Measurement range 40-200 N.m	
Combination wrench 9#		
Combination wrench 10#		
Combination wrench 11#		
Combination wrench 12#		
Combination wrench 13#		
Combination wrench 15#		
Combination wrench 16#		
Combination wrench 17#		
Combination wrench 18#		
Slotted screwdriver with through tang	8x200mm, with magnetic head at opening	
Slotted screwdriver	6x38mm, with magnetic head at opening	
Slotted screwdriver	5x75mm, with magnetic head at opening	
Slotted screwdriver	5x100mm, with magnetic head at opening	
Slotted screwdriver	6x150mm, with magnetic head at opening	
Cross screwdriver with through tang	3#x200mm, with magnetic head at opening	
Cross screwdriver	1#x75mm, with magnetic head at opening	
Cross screwdriver	2#x38mm, with magnetic head at opening	
Cross screwdriver	2#x100mm, with magnetic head at opening	
Cross screwdriver	2#x150mm, with magnetic head at opening	
Oil can		
Dust-blowing gun		
Tire gauge		
File		
Maintenance tool wagon	411x572x720 (excl. wheel height)	

Maintenance Period Table

Maintenance times	Period	Odometer km (Remark 2)				Remarks
		2000 k m	4,000 km	8,000 km	12,000 km	
* Fuel system passage			I	I	I	
** Fuel precision filter		Replace for every 15000km driving				
* Throttle operating system		I	I	I	I	
* Throttle valve body		I	I	I	I	
Air filter element	Remark 1	C	C	R	Replace every 8,000km driving	
Oil catcher		C	C	C	Clean for every 5,000km driving	
Spark Plug		I	I	I	Replace every 15000km driving	
Engine lubricant oil		For a motorcycle, change every 500km, 1200km and 2000km respectively, and then change it every 3000km driving				
Oil filter		R	Replace every 12,000km driving			
* Tensioner	Remark 3	I	I	I	I	
both intake and exhaust	Remark 3	I	Check every 8,000km driving			
Clutch		I	I	I	I	
* Driving chain		Proceed with I and L for every 500km driving				
** Front and rear brake system		I	I	I	I	
** Brake Pad		I	I	I	I	
** Brake fluid		Change every 2 years				
* Front and rear brake lamp switch		I	I	I	I	
* Accumulator	Monthly	I	I	I	I	
* Suspension system		I	I	I	I	
* Nut and bolt fastening		I	I	I	I	
** Wheel & tire		I	I	I	I	
** Steering column bearing		I	I	I	I	
** Steering backstay cable	Inspect every 5000km driving and replace every 10000km driving					

Maintenance shall be carried out to the motorcycle in a specified period. The meanings of various symbols in the list are as follows:

I: Carry out inspection, cleaning, adjustment, lubrication or replacement. C: Cleaning. R: Replacement. A: Adjustment. L: Lubrication.

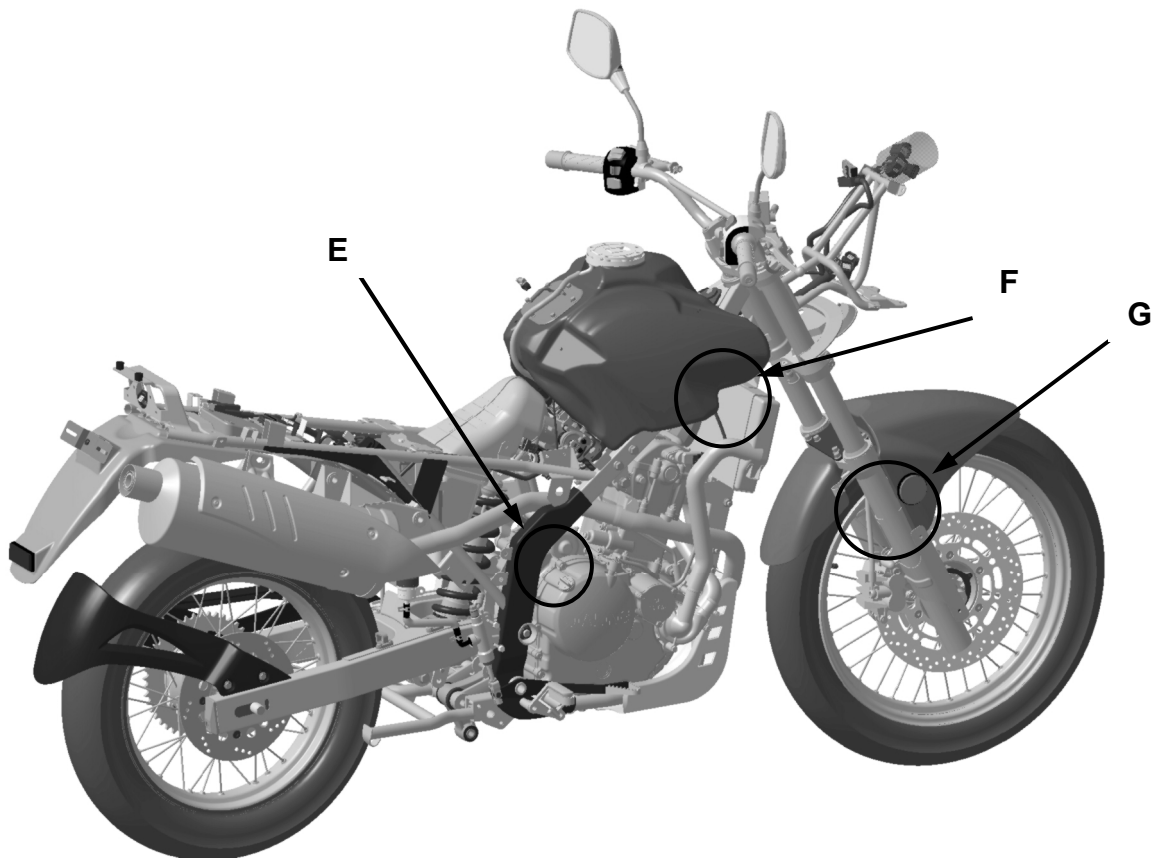
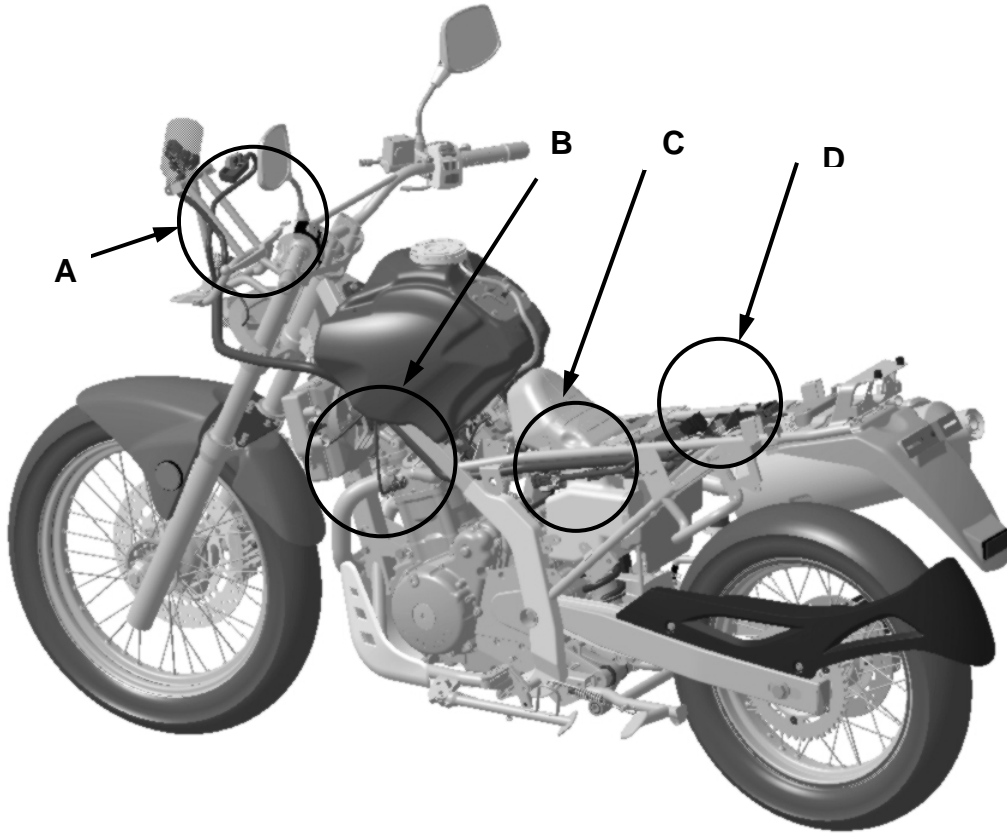
* This item is subject to maintenance by persons from Jialing Service Station. If the user has special service tools, maintenance accessories or maintenance ability, it can repair it by itself.

** To ensure safety, this item is only subject to maintenance by persons from Jialing Service Station.

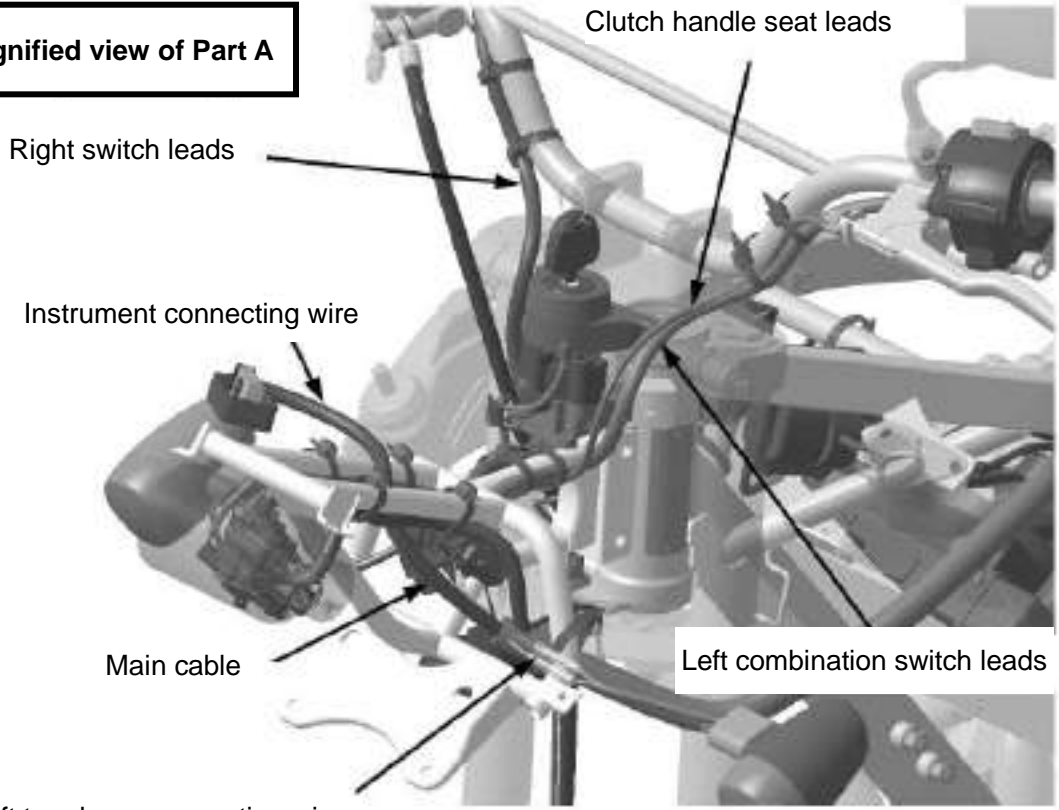
Remarks:

- ① While driving in a dusty area, it shall be cleaned more often.
- ② When the odometer reads more than the given maximum value, its maintenance period shall still repeat as per the mile interval as stipulated in the table.
- ③ To ensure safety, the adjustment of timing chain and valve clearance shall only be carried out by persons from Jialing Service Station.

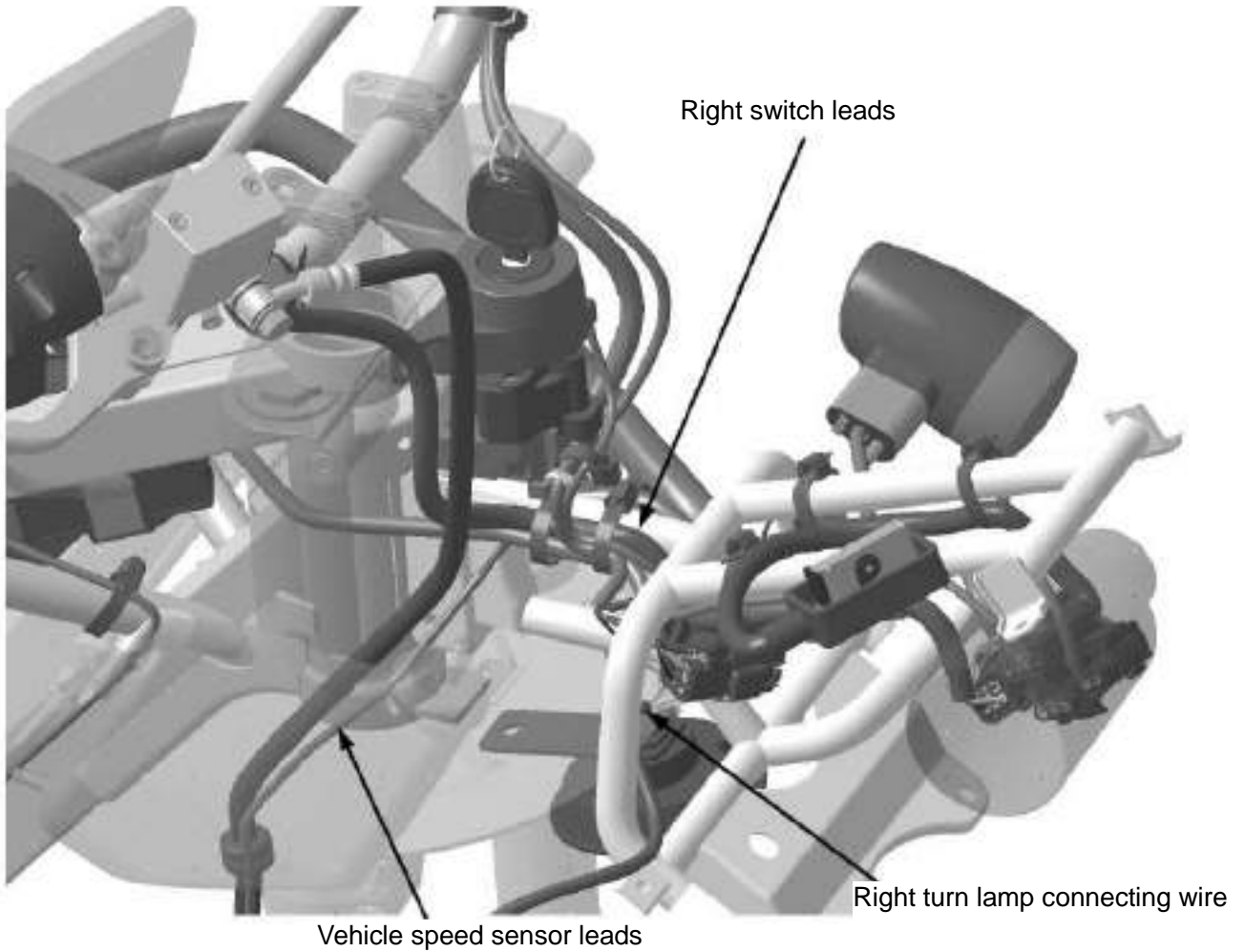
Wiring Diagram



Magnified view of Part A



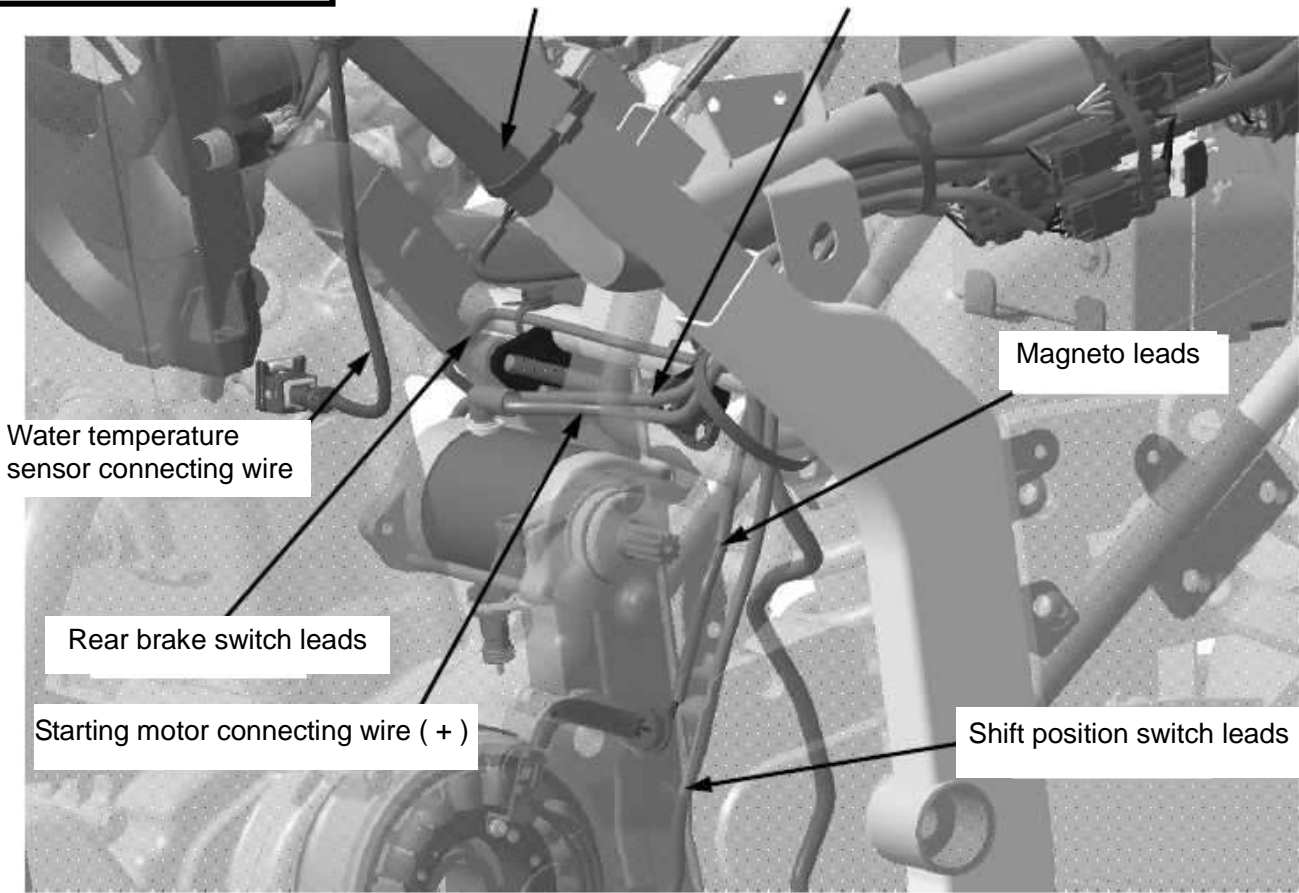
Left turn lamp connecting wire



Magnified view of Part B

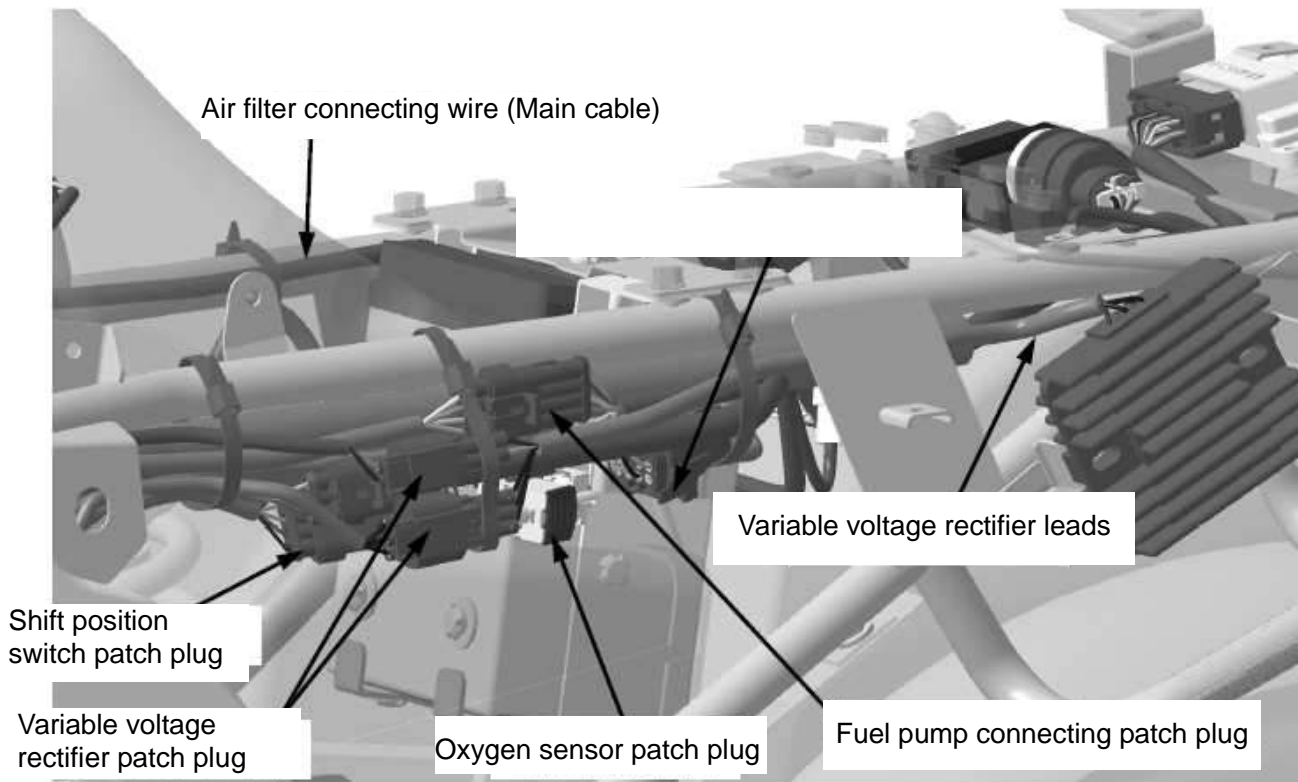
Main cable components

Starting motor connecting wire (-)

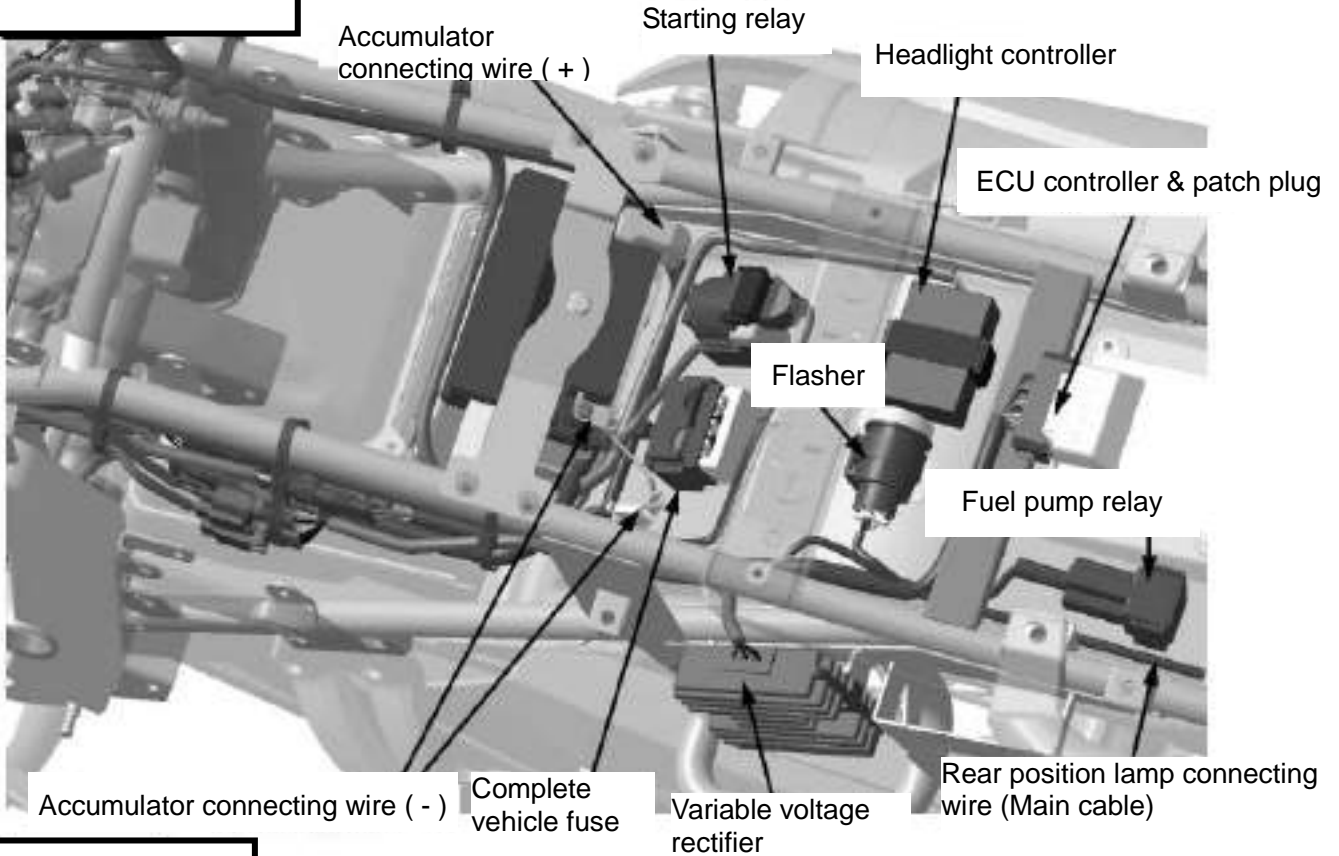


Magnified view of Part C

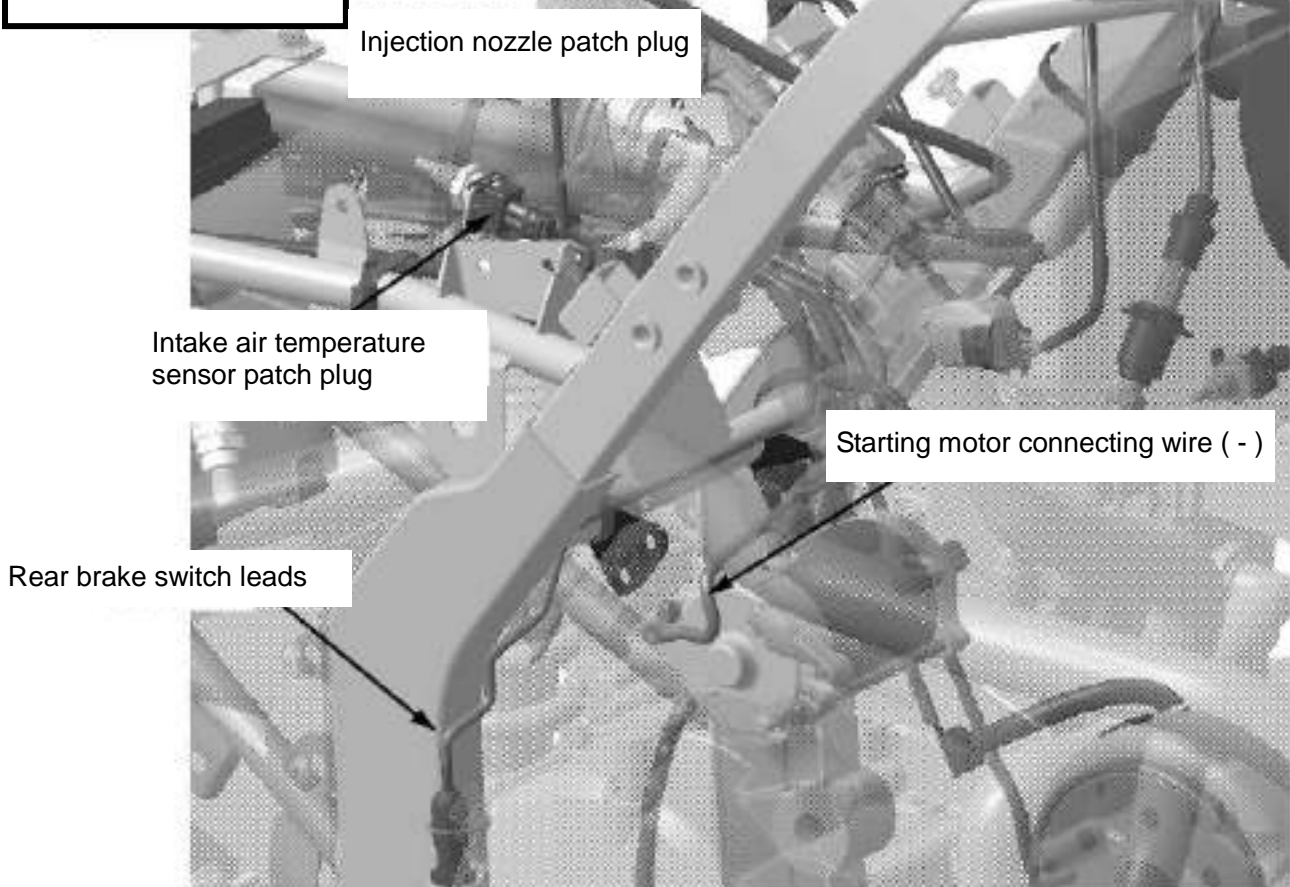
Air filter connecting wire (Main cable)



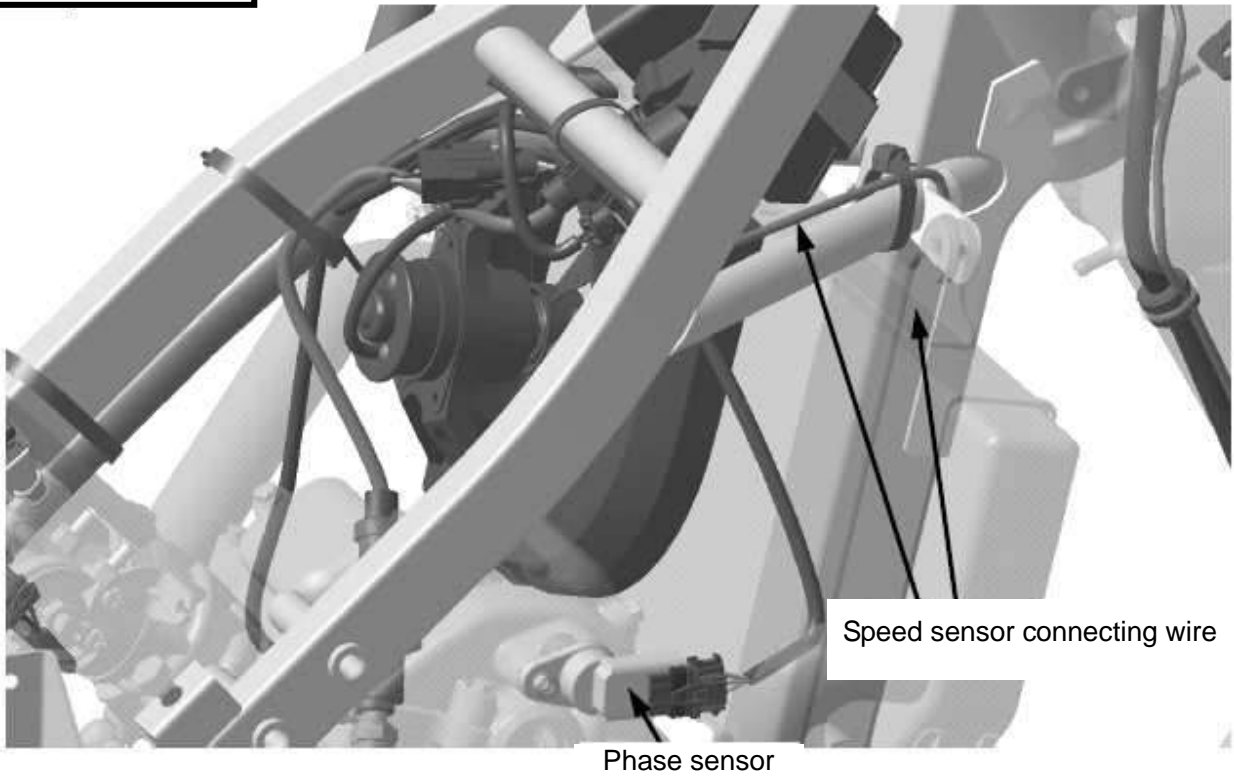
Magnified view of Part D



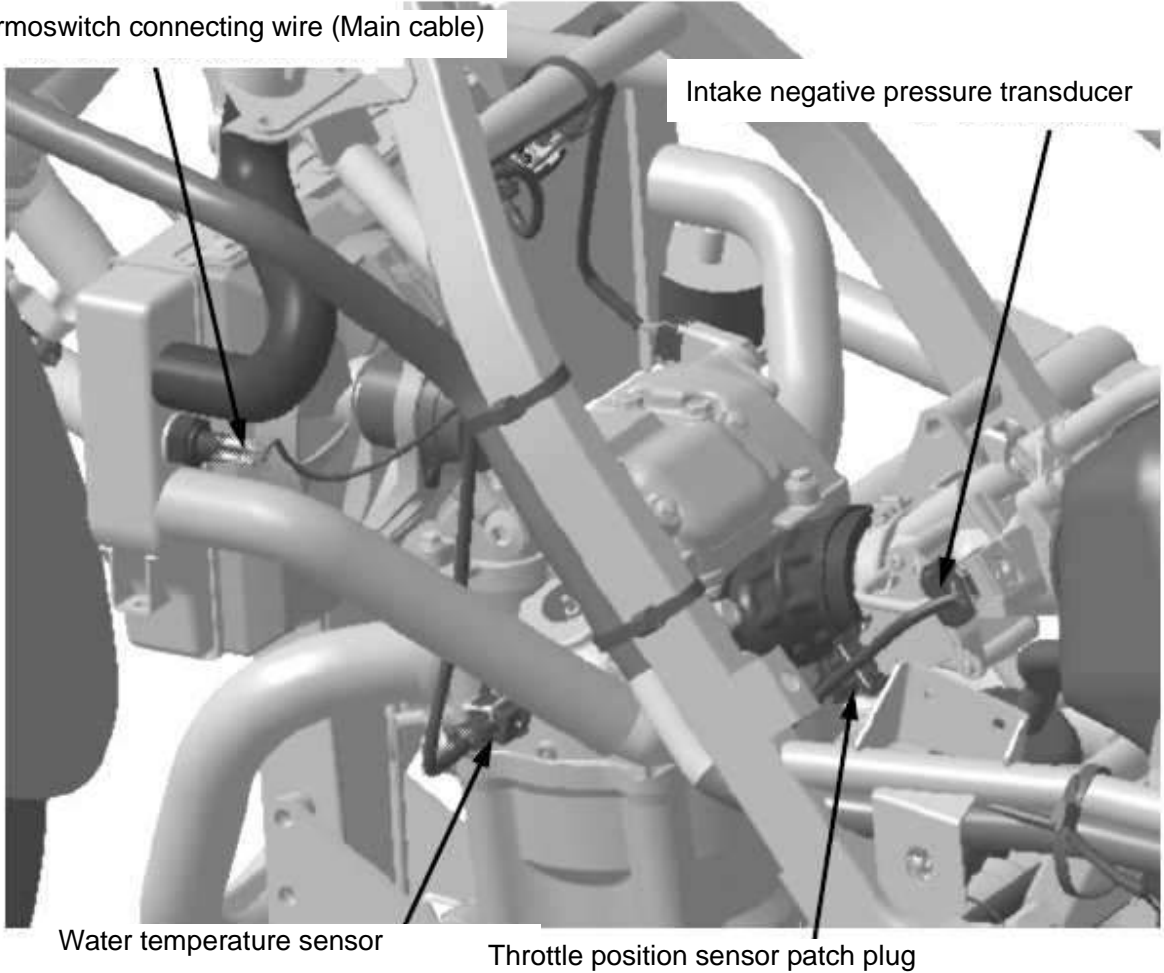
Magnified view of Part E



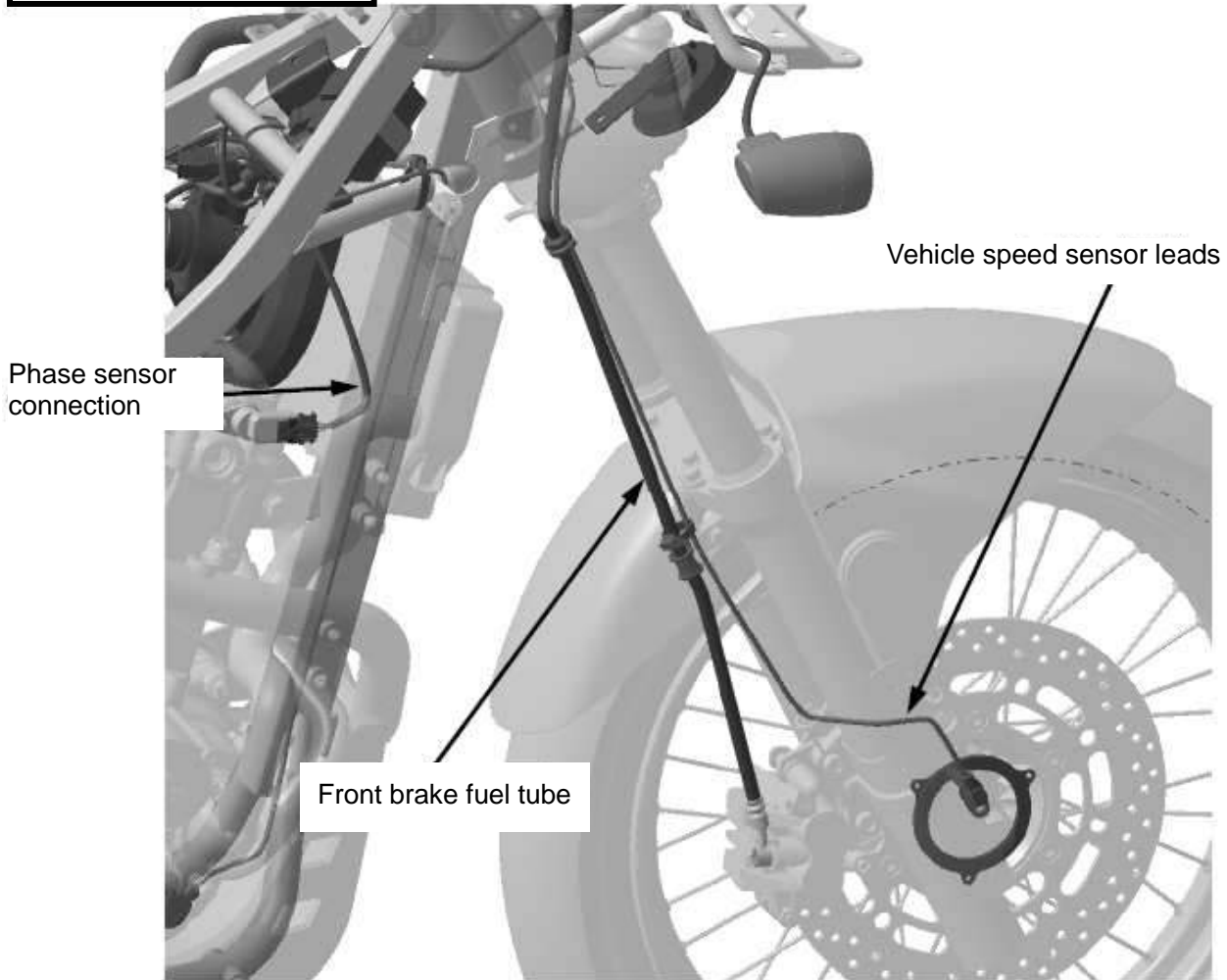
Magnified view of Part F



Thermoswitch connecting wire (Main cable)










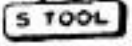
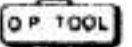






Magnified view of Part G



Symbol Descriptions

Meanings of various symbols in this manual:

	<p> Explanation: Measures to be prompted during operating, inspecting and maintaining.</p>
	<p> NOTICE: Special instructions or disposal measures given to prevent motorcycle from being damaged.</p>
	<p> WARNING: Special instructions or measures given to avoid serious damages or personal injuries.</p>

	Each time reassembled after being removed and disassembled, it must be replaced with a new one.
	Use special service tools (SST)
	Use general-purpose tools.
	Tightening torque of 50 N.m.
	Use suggested engine oil.
	Use the mixtures of engine oil and molybdenum disulfide (mixing ratio of 1:1).
	Use thread locker.
	Use sealant.
	Use lithium base grease.