

SERVICE MANUAL



E-Five

This “E-FIVE” service manual contains only items, which is changed due to the design change from “S-FIVE”.
For items not explained in this manual, refer to “S-FIVE” service manual.

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1. SERIAL NUMBER LOCATION



ENGINE SERIAL NUMBER







(1) The engine serial number is stamped on the rear face of the left crankcase.



FRAME SERIAL NUMBER

(2) The frame serial number is stamped on the front central part of the frame.

2. CHANGED ITEMS COMPARED WITH S-FIVE


ITEM	S-FIVE (MAJOR)	E-FIVE (MAJOR ATS)
STEERING HANDLE	 <ul style="list-style-type: none"> • Handle cover is installed. 	 <ul style="list-style-type: none"> • Handle cover is removed. • Wind screen is added newly.
FRONT FENDER	 <ul style="list-style-type: none"> • Front fender is installed. → ON-ROAD Type 	 <ul style="list-style-type: none"> • Front fender is removed. • Front guard, front mini cover is installed. → OFF-ROAD Type
SPEEDOMETER	 <ul style="list-style-type: none"> • Speedometer is installed on the interior of the handle cover. • Fuel meter is installed. 	 <ul style="list-style-type: none"> • Removable and compact Type. • Fuel meter is replaced by fuel warning indicator.

CHANGED ITEMS COMPARED WITH S-FIVE

ITEM	S-FIVE (MAJOR)	E-FIVE (MAJOR ATS)
HANDLE LEVEL PROTECTOR		

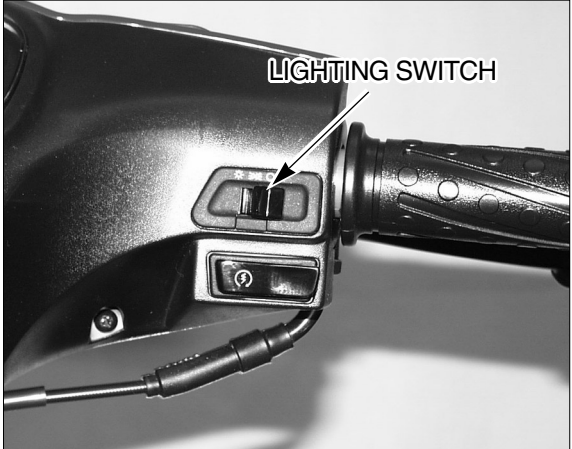
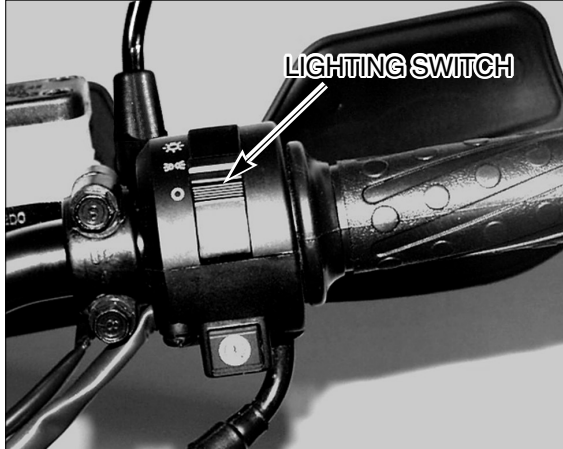
• Handle lever protector is not installed.

• Handle lever protector is installed.
→ Improved safety

REAR CARRIER		
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• Spoiler Type



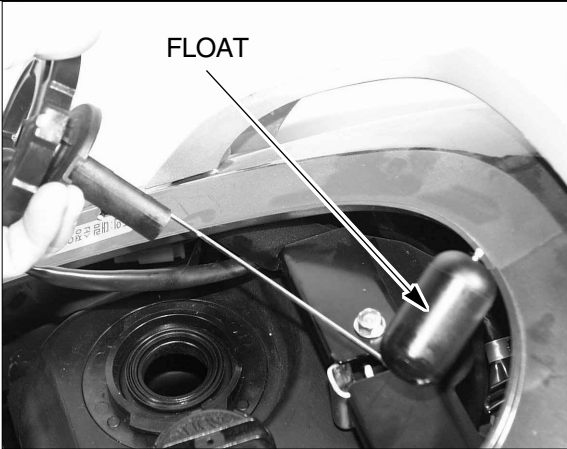
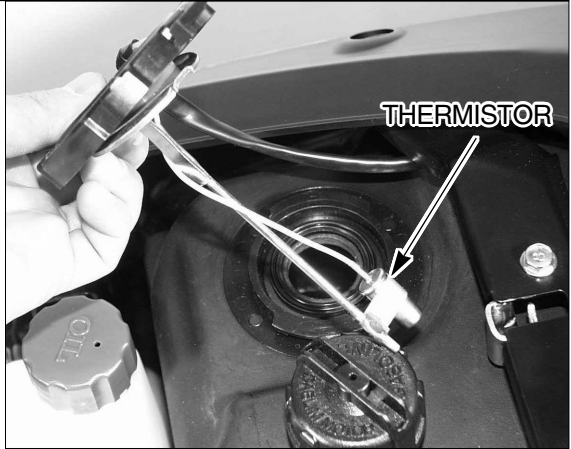


• Rod Type (easy to load freight)

LIGHTING SWITCH		
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• Slide Type (right and left)

• Slide Type (up and down)

CHANGED ITEMS COMPARED WITH S-FIVE

ITEM	S-FIVE (MAJOR)	E-FIVE (MAJOR ATS)
HAZARD SWITCH		
	<ul style="list-style-type: none"> • Hazard switch is installed. 	<ul style="list-style-type: none"> • Hazard switch is not installed.
FUEL UNIT		
	<ul style="list-style-type: none"> • Float is installed. 	<ul style="list-style-type: none"> • Thermistor is installed. <ul style="list-style-type: none"> → Fuel warning light turns on due to the thermistor's self radiation of heat.
BACK MIRROR		
	<ul style="list-style-type: none"> • Curve Type 	<ul style="list-style-type: none"> • Rectangle Type <ul style="list-style-type: none"> → Unpolished Off-road image

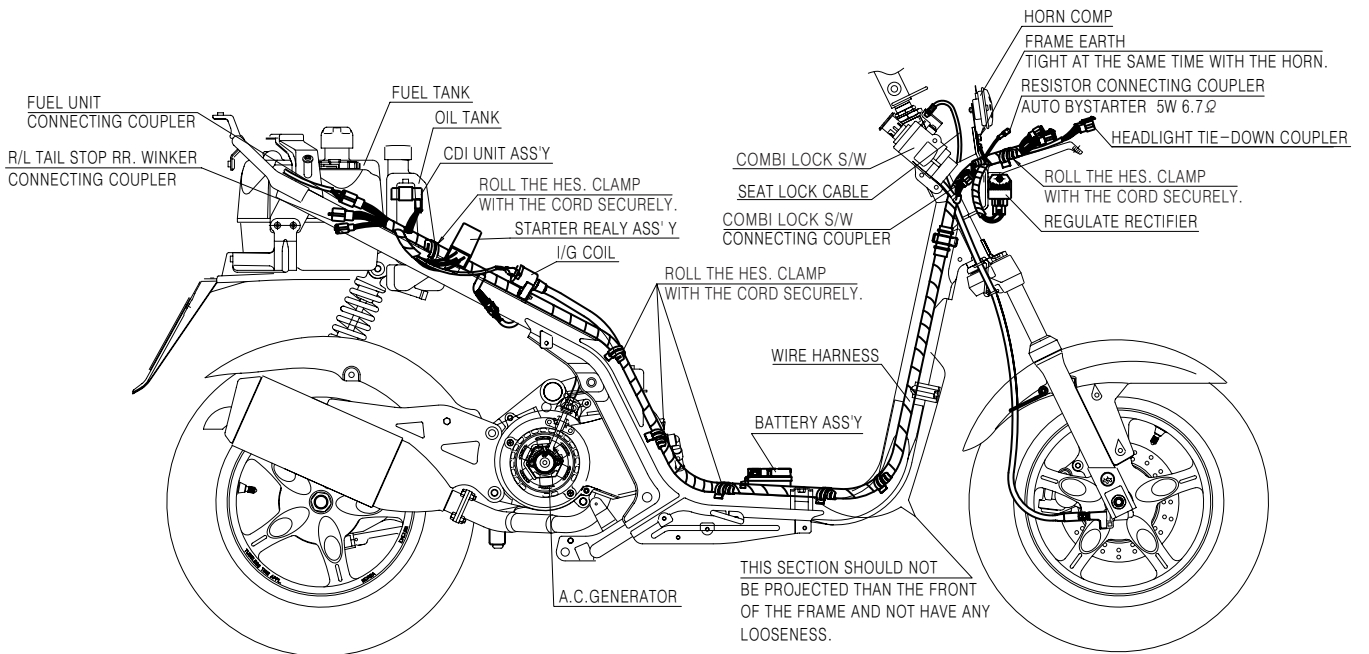
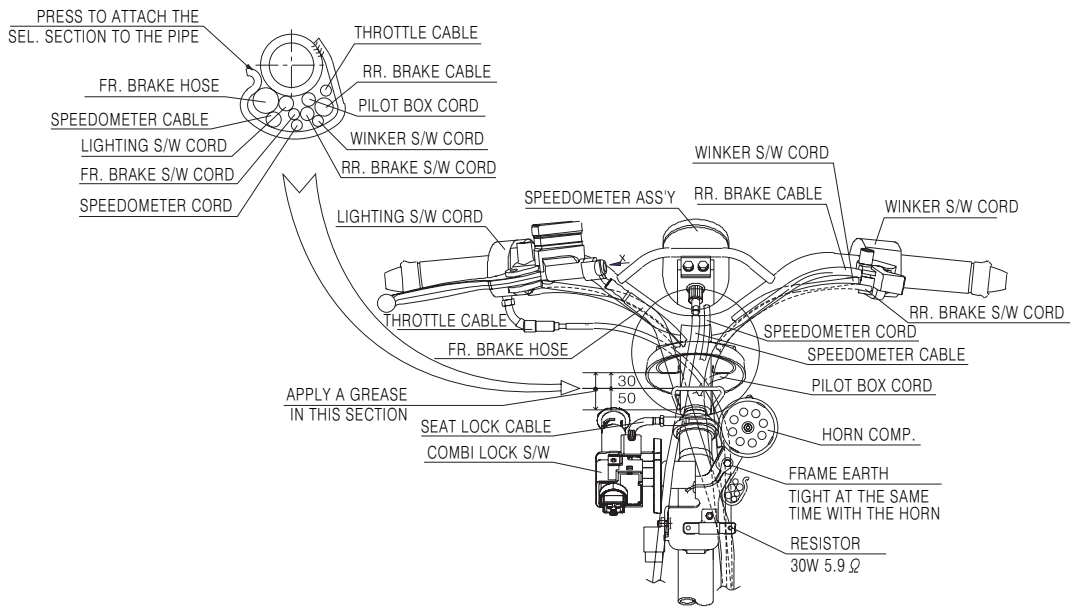
CHANGED ITEMS COMPARED WITH S-FIVE

ITEM	S-FIVE (MAJOR)	E-FIVE (MAJOR ATS)
WHEELS	 <ul data-bbox="336 719 906 929" style="list-style-type: none">• 12 "• Silver painted	 <ul data-bbox="911 719 1481 929" style="list-style-type: none">• 10 "• Black painted
TIRES	 <ul data-bbox="336 1391 906 1516" style="list-style-type: none">• FRONT : 120/70-12 58L• REAR : 130/70-12 62L• TIRE PATTERN : ON-ROAD USE (SEMI-BLOCK)	 <ul data-bbox="911 1391 1481 1516" style="list-style-type: none">• FRONT : 130/90-10 61J• REAR : 130/90-10 61J• TIRE PATTERN : ON/OFF-ROAD USE (BLOCK)
MUFFLER	 <ul data-bbox="336 1977 906 2042" style="list-style-type: none">• Hot Tube Type	 <ul data-bbox="911 1977 1481 2042" style="list-style-type: none">• Honey Comb. Type → Noise reduction effect

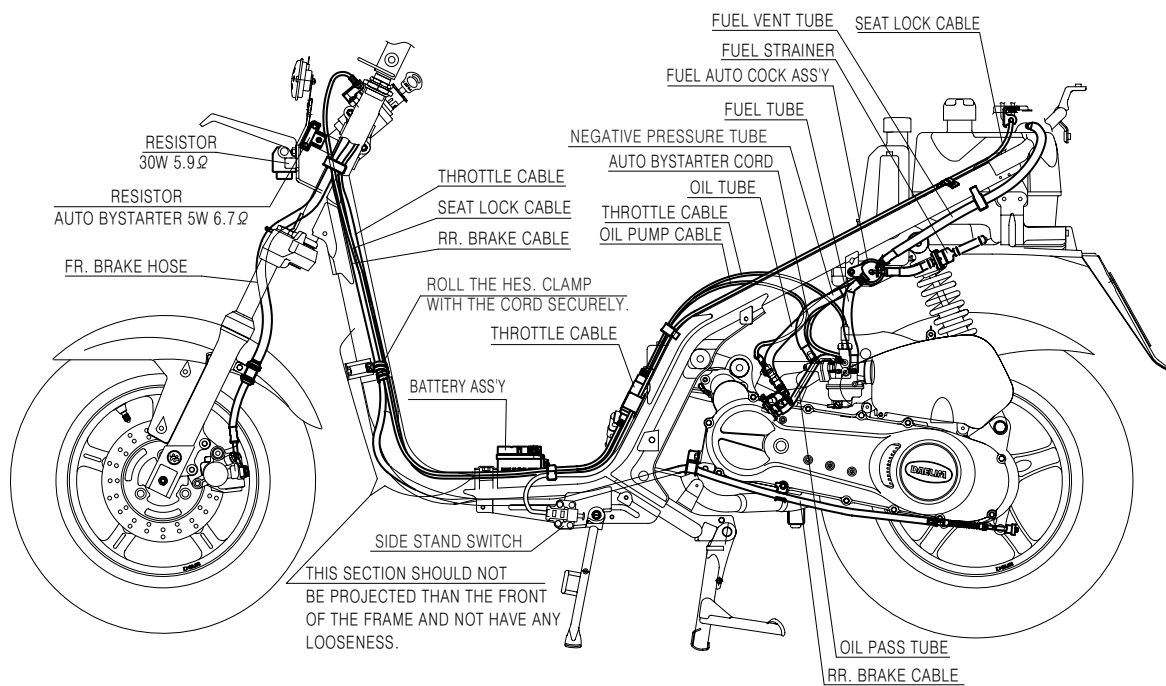
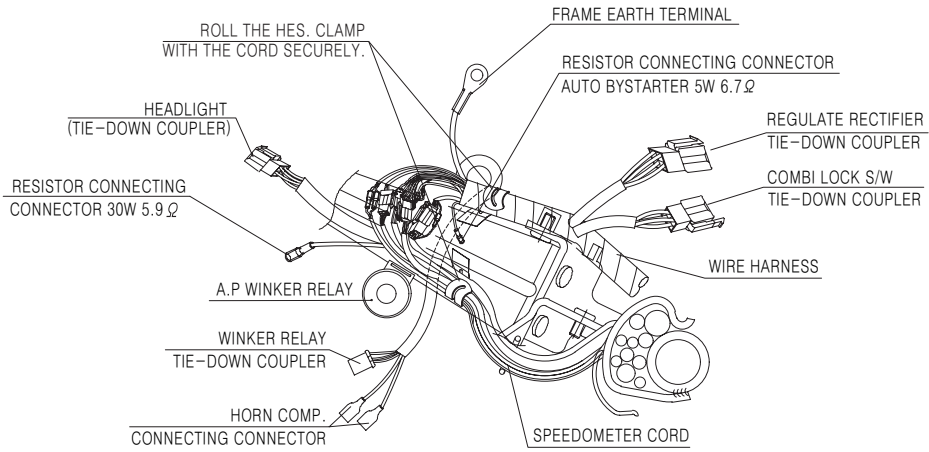
3. SPECIFICATIONS

ITEM		SPECIFICATIONS	ITEM	SPECIFICATIONS
TYPE OF VEHICLE		E-FIVE (MAJOR ATS)	MIN. REVOLUTION RADIUS	1.8mm
OVERALL LENGTH		1,790mm	COOLING TYPE	AIR-COOLED
OVERALL WIDTH		685mm	STARTING	STARTER MOTOR/KICK
OVERALL HEIGHT		1,130mm	MOTOR TYPE	2-CYCLE
WHEEL BASE		1,260mm	NO. OF CYLINDER/MOUNTING	1CYCLINDER / TRANSVERSE
MOTOR TYPE		SJ50E	VALVE APPARATUS	REED VALVE, PISTON VALVE COMBINATION
DISPLACEMENT		49.5cc	BORE X STROKE	39.0 x 41.4mm
FUEL TYPE		GASOLINE	COMPRESSION RATIO	6.8 : 1
DRY WEIGHT	FRONT AXLE	34.5kg	MAX. OUTPUT	5.1PS/7,000rpm
	REAR AXLE	51.5kg	MAX. TORQUE	0.55kgf.m/7,000rpm
	TOTAL	86kg	PRIMARY SPEED REDUCTION RATIO	4.083
PASSENGERS		2 (65kg)	SECONDARY SPEED REDUCTION RATIO	3.615
IGNITION SYSTEM		C.D.I	TRANSMISSION TYPE	V-MATIC GEARLESS TRANSMISSION
BATTERY CAPACITY		12V3AH(MF TYPE)	TRANSMISSION RATIO 1st GEAR	2.41~0.76
FUEL TANK CAPACITY		6.0 l (RESERVIOR 1.1 l)	FRAME SERIAL NUMBER	KMYSEIB4N2C000001~
OIL TANK CAPACITY		1.2 l	ENGINE SERIAL NUMBER	SJ50E4000001~
SPARK PLUG		BP7HS	TIRE SIZE	FR. 130/90-10 61J
FUSE		7A		RR. 130/90-10 61J
GROUND CLEARANCE		131mm	SUSPENSION	FR. TELESCOPIC
CASTER		26°		RR. UNIT SWING ARM OIL DAMPER
TRAIL		80.5mm	BRAKE	FR. HYDRAULIC DISK
FRAME TYPE		UNDER BONE		RR. DRUM BRAKE
BRAKING DISTANCE		9.5m(36km/h)	TIRE TYPE	TUBELESS

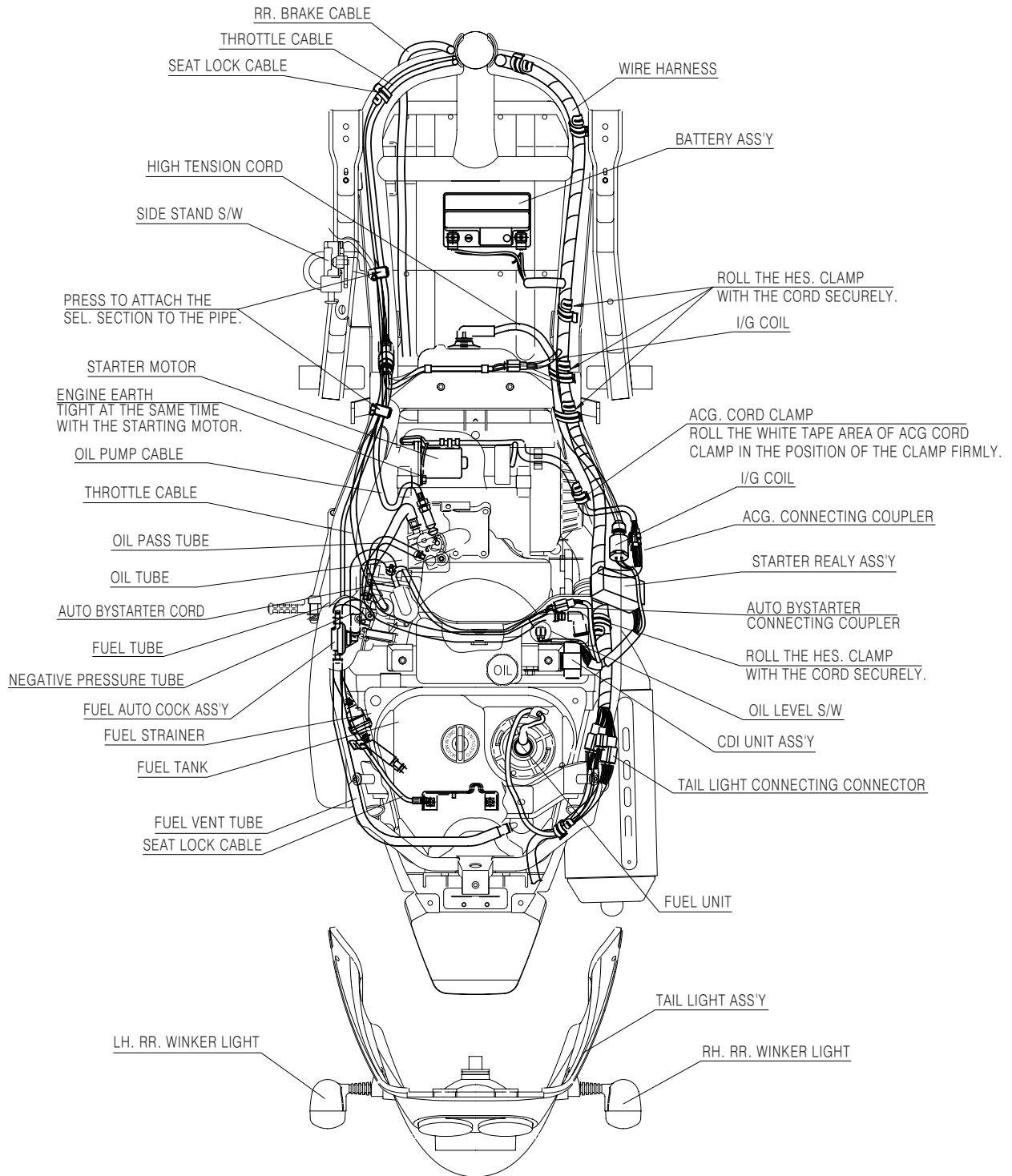
4. CABLE & HARNESS ROUTING



CABLE & HARNESS ROUTING



CABLE & HARNESS ROUTING



5. INSPECTION / MAINTENANCE

1) FUEL UNIT

REMOVAL

- Remove the luggage box.
- Remove the fuel unit wire from the wire harness.

- Turn the fuel unit set cap complete to the left, and remove it.

NOTE

- Be careful of prevention the fuel unit wire from damaging.
- When disassembling, be careful of prevention the thermistor from damaging.

- Remove the base packing.

NOTE

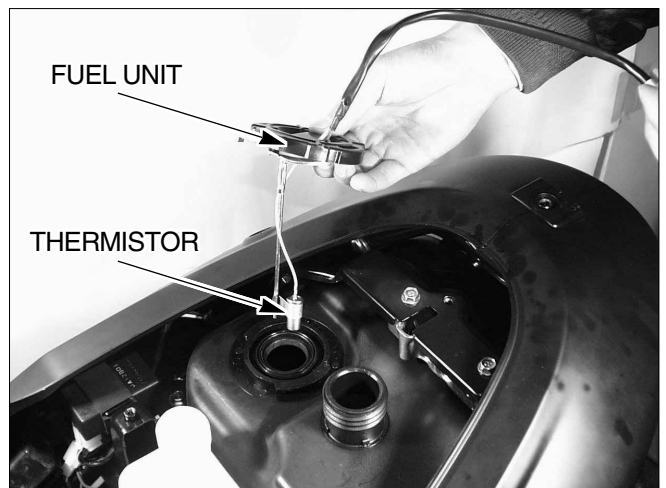
- Check the base packing for damage.

INSTALLATION

- Install the base packing to the fuel tank.
- Install the fuel unit.

NOTE

- Install it aligning the \square part of the fuel unit with the loop part of fuel tank.
- Check the fuel leakage.



FUEL UNIT INSPECTION

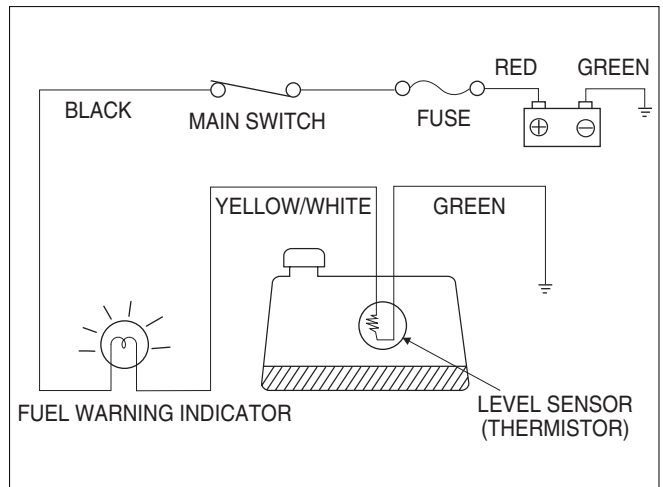
INFORMATION

● **FUEL WARNING INDICATOR**

A thermistor is built into the fuel level sensor in the fuel tank and the fuel warning light turns on due to the thermistor's self radiation of heat.

When the thermistor is in the gasoline, radiation of heat increases and the self heating action is reduced. As the resistance increases and the current does not flow at this time, the fuel warning light does not turn on.

When the thermistor is out of gasoline, i.e. fuel level is low, radiation of heat decreases and the self heating increases. As the resistance is low at this time, current flows and the fuel warning light turns on.



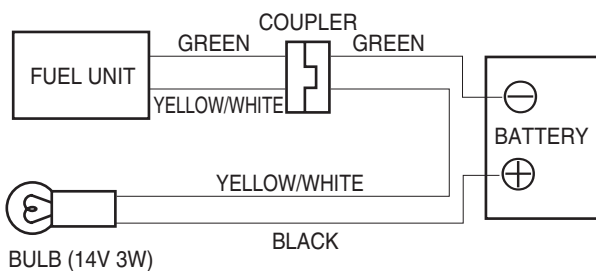
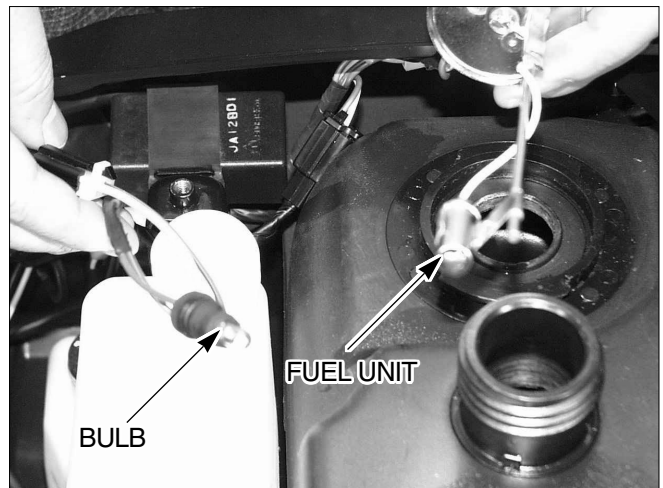
- Check for battery voltage between the fuel level sensor connector terminals.



- Remove the fuel unit and check for proper operation in the air and gasoline.

- Connect additional bulb between terminals of the fuel unit and battery sides and check that the bulb is illuminating.

(ADDITIONAL BULB CAPACITY : 14V 3W)



- The bulb must be illuminated within 3 minutes after the thermistor of the fuel unit is exposed in the air.
- The bulb must not be illuminated within 3 minutes after immersing the thermistor of the fuel unit.



INSPECTION/MAINTENANCE

2) HANDLE SWITCH INSPECTION

- Remove the front cover.
- Remove the handle switch coupler, connector, and inspect continuity of each terminal.
- If abnormal, inspect the switch.
There should be continuity between the ○—○ positions on the continuity chart.

■ STARTER SWITCH

	ST	E
FREE		
PUSH	○—○	○—○
CORD COLOR	YELLOW/RED	GREEN

■ LIGHTING SWITCH

	CI	TL	HL	RE
•	○—○			○—○
P	○—○	○—○		
(N)	○—○	○—○		
H	○—○	○—○	○—○	
CORD COLOR	YELLOW	BROWN	BLUE/WHITE	PINK

■ WINKER SWITCH

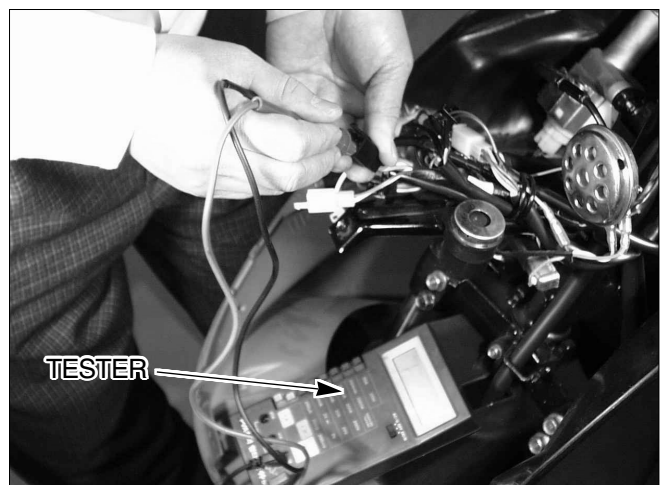
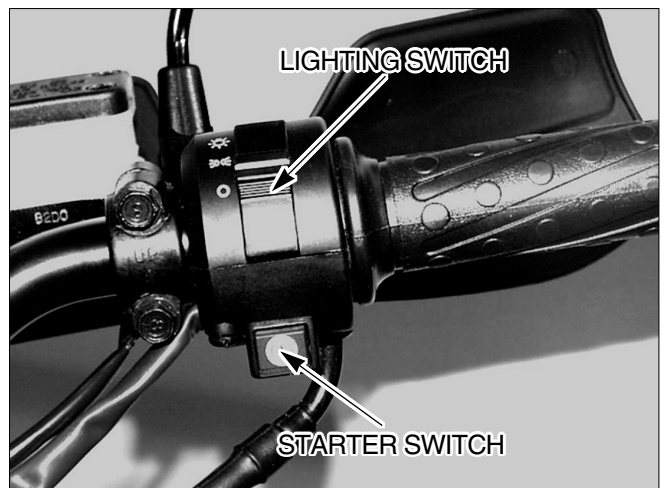
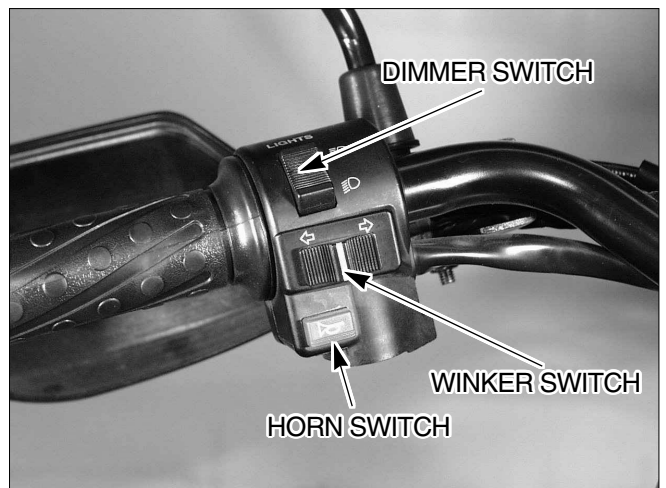
	R	L	WIN
L		○—○	○—○
N			
R	○—○		○—○
CORD COLOR	SKY BLUE	ORANGE	GRAY

■ DIMMER SWITCH

	HI	HL	LO
LO		○—○	○—○
N	○—○	○—○	○—○
HI	○—○	○—○	
CORD COLOR	BLUE	BLUE/WHITE	WHITE

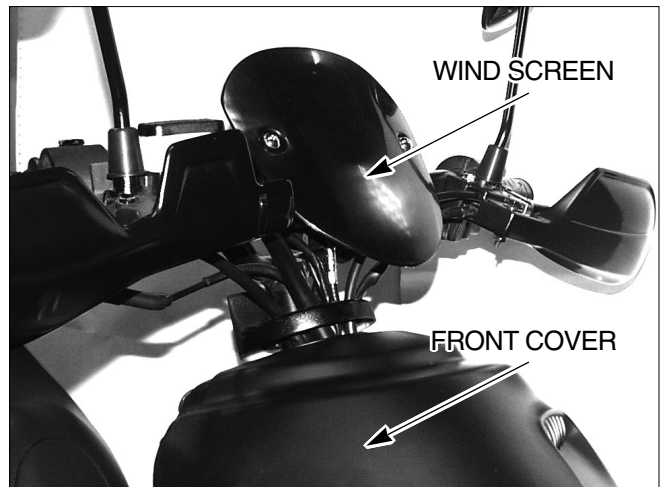
■ HORN SWITCH

	HO	BAT
FREE		
PUSH	○—○	○—○
CORD COLOR	LIGHT GREEN	BLACK



3) SPEEDOMETER REPLACEMENT

- Remove the front cover.
- Loosen the 2 washer bolts, and remove the wind screen.



- Remove the speedometer cable from the meter.
- Remove the speedometer coupler connected to the wire harness.
- Remove the speedometer wiring from the steering handle cable guide.



- Loosen the 2 flange bolts securing the steering handle stay.



- Remove the speedometer from the steering handle.
- Install in the reverse order of removal.

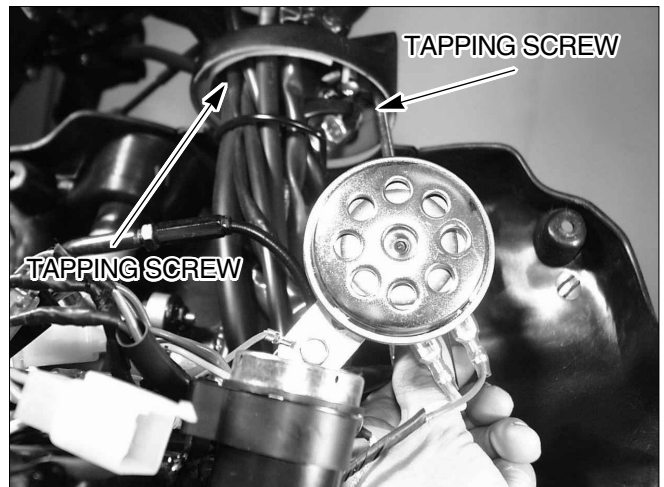
NOTE

- Check the each switch for proper operation.
- The wire and cable must be connected accurately.



4) PILOT BOX SET BULB REPLACEMENT

- Remove the front cover.
- Loosen the 2 tapping screws and remove the pilot box base.



- Remove the bulb from the socket, and replace with a new bulb.

WEDGE BASE BULB T6.5 : 14V 3W



5) FRONT MINI COVER REMOVAL

- Remove the front cover.
- Loosen the 2 flange nuts and 2 special screws securing the front under cover.
- Remove the front mini cover.



- Install in the reverse order of removal.



6) LUGGAGE CARRIER REMOVAL

- Loosen 3 flange bolts securing the top of the body cover.
- Remove the luggage carrier.



- Install in the reverse order of removal.



7) HANDLE LEVER PROTECTOR REMOVAL

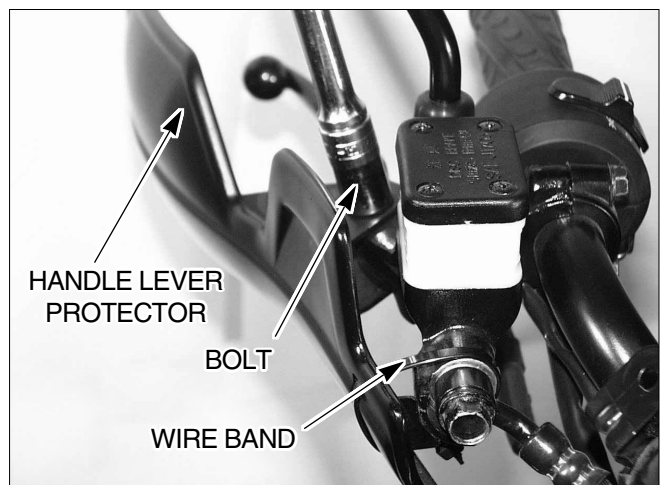
[LEFT]

- Loosen the 2 washer bolts, remove the LH. handle lever protector.
- Install in the reverse order of removal.

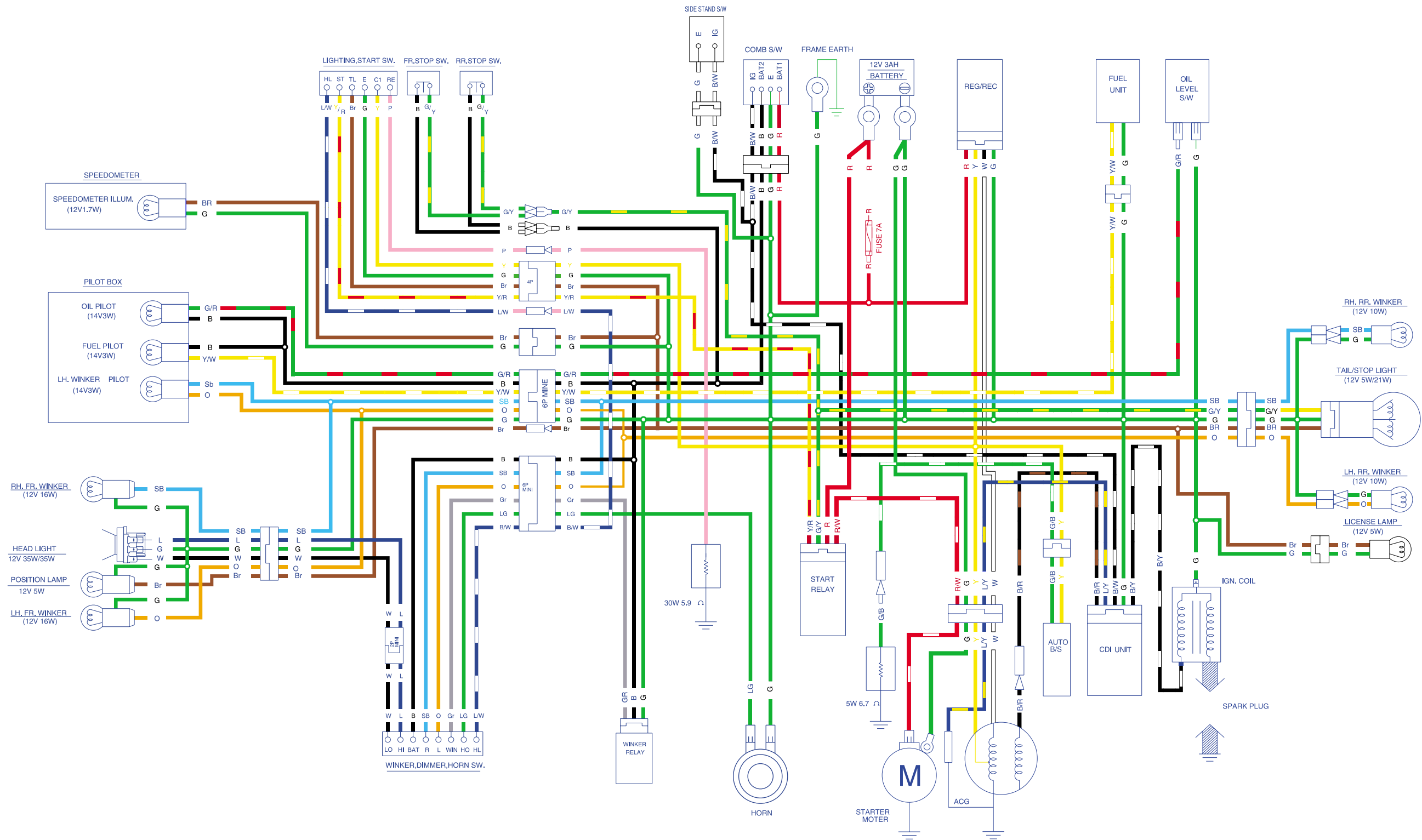


[RIGHT]

- Loosen the handle lever bolt and wire band, remove the RH. handle lever protector.
- Install in the reverse order of removal.



6. WIRING DIAGRAM



LIGHTING S/W

	C1	TL	HL	RE
P				
(N)				
H				
CORD COLOR	Y	Br	L/W	P

START S/W

	ST	E
FREE		
PUSH		
CORD COLOR	Y/R	G

DIMMER S/W

	HI	HL	LO
LO			
N			
HI			
CORD COLOR	L	L/W	W

WINKER S/W

	R	L	WIN
L			
N			
R			
CORD COLOR	SB	O	Gr

SIDE STAND S/W

	IG	E
FREE		
PUSH		
CORD COLOR	B/W	G

HORN S/W

	HO	BAT
FREE		
PUSH		
CORD COLOR	LG	B

COMB S/W

	IG	E	BAT1	BAT2
ON				
OFF				
LOCK				
CORD COLOR	B/W	G	R	B

B	BLACK	BR	BROWN
Y	YELLOW	O	ORANGE
L	BLUE	SB	SKY BLUE
G	GREEN	LG	LIGHT GREEN
R	RED	P	PINK
W	WHITE	GR	GRAY

COLOR COMB GROUND/MARKING

MEMO

MEMO

MEMO

E-PRG SERVICE MANUAL

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