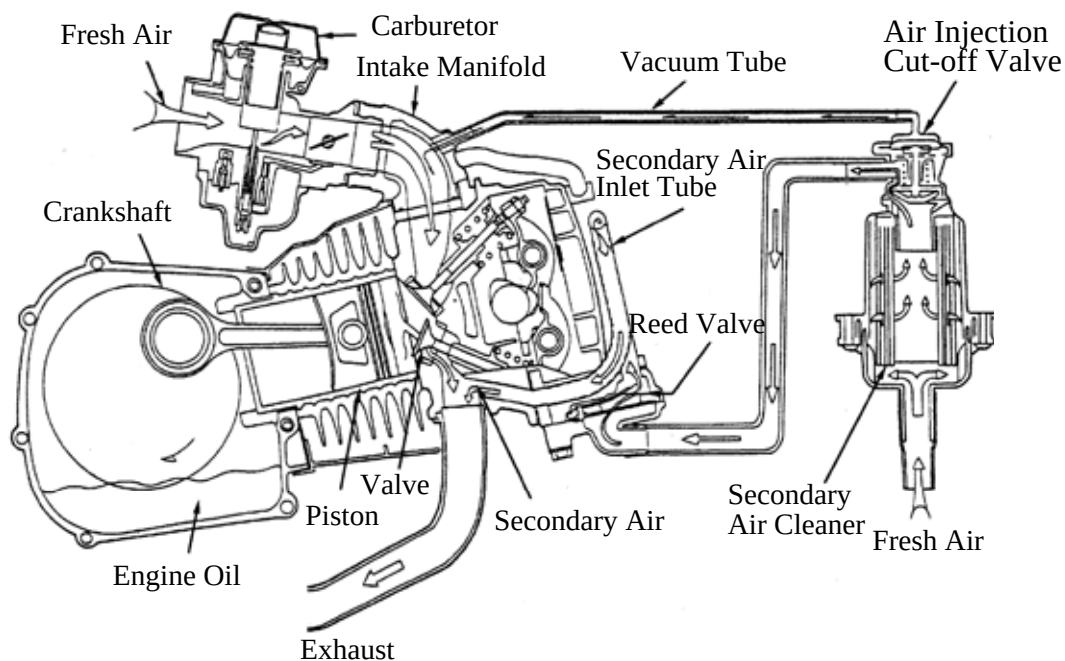


18. EVAPORATIVE/EXHAUST EMISSION CONTROL SYSTEM

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EXHAUST EMISSION CONTROL SYSTEM DIAGRAM



18. EVAPORATIVE/EXHAUST EMISSION CONTROL SYSTEM

EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system adopted in this model utilizes the reed valve to draw secondary air into the exhaust system for re-combustion by means of exhaust pulsation so as to minimize the exhaust emission.

FUNCTION

Item	Purpose	Function
Secondary Air Cleaner	Filter secondary air.	It filters the fresh air drawn for re-burning to prevent dirt or dust from affecting the operation of the air injection cut-off valve.
Air Injection Cut-off Valve	Prevent exhaust muffler noise and backfiring at sudden deceleration.	The air injection cut-off valve usually opens to lead air into the exhaust muffler in which air is re-burned to reduce CO. When the throttle valve closes suddenly, the air injection cut-off valve is actuated by vacuum to close and cut off secondary air in order to prevent exhaust muffler backfiring due to air in the exhaust system.
Reed Valve	Control the secondary air inlet to reduce CO.	When the motorcycle speed is less than 50km per hour, the reed valve operates to draw secondary air into the exhaust system for re-combustion.

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- During operation, be careful to avoid scalding caused by the exhaust muffler.
- Note the locations of tubes for proper installation.
- Replace any damaged tube with a new one.
- Make sure to tighten the connector of each tube securely

TOOLS

- Vacuum pump —

SPECIFICATIONS

Air injection cut-off valve actuating pressure —
250mm/Hg — 30 liter/min.
Reed valve stopper clearance — 6.6mm

TROUBLESHOOTING

High CO at idle speed

- Damaged or clogged reed valve
- Damaged or clogged air injection cut-off valve
- Clogged air cleaner

Exhaust muffler noise

- Faulty air injection cut-off valve
- Broken vacuum tube
- Faulty reed valve

Backfiring at sudden deceleration

- Damaged reed valve (malfunction)
- Faulty air injection cut-off valve (unable to close)
- Carburetor incorrectly adjusted
- Faulty air cut-off valve
- Leaking vacuum tube

18. EVAPORATIVE/EXHAUST EMISSION CONTROL SYSTEM

MAINTENANCE SCHEDULE:

(1) PERIODIC MAINTENANCE

Service Mileage		300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000
Lubrication System	Engine oil	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R
	Oil filter screen	C		C			C					C					C
	Gear oil	R					R					R					R
	Motor oil filter						I					I					I
Fuel System	Fuel filter			I			I					I					I
	Fuel filter screen	C					C					C					C
	Carburetor			A			A					A					A
	Fuel line						I					I					I
Air Supply System	Air cleaner			R		R		R		R		R		R		R	
	Charcoal canister			I			I					I					I
	Secondary air cleaner			I			R					R					R
	Secondary air inlet line											I					
	Intake manifold screw											I					
	Purge control valve			I			I					I					I
	Air lines						I					I					I
	Catalytic converter			I			I					I					I
Drive System	Cam chain			I			I					I					I
	Drive chain			I			I					I					I
	Drive belt			I			I					I					I
	Valve clearance			I			I					I					I
Ignition System	Spark Plug	4-stroke		I								R					
	Plug	2-stroke		I			R					R					R
	C.D.I.						I					I					I
	Ignition system wires						I					I					I
Others	Bolts and nuts		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	Brake system		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Remarks		I: Inspect, A: Adjust, C: Clean, R: Replace, T: Tighten •During riding or inspection, if any part is found to be cleaned, adjusted or replaced, do it directly and take a record if the exhaust emission control system is not seriously affected. It must be reported and approved if the exhaust emission control system is seriously affected.															

(2) IRREGULAR MAINTENANCE:

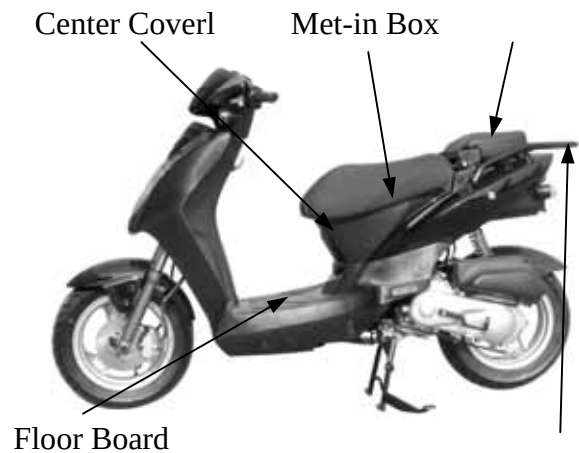
Item	Contents
Ignition system	Inspect and repair when obvious symptoms of ignition failure, engine overheating and stalling are found frequently.
Carbon deposit removal	Remove carbon deposits from the exhaust system, cylinder head and piston head when the engine horsepower decreases greatly during the service mileage of 10000~15000 km.
Transmission system	Perform CVT system maintenance and inspection when the engine performance decreases obviously.
Piston	Severe use in the first 1000 km may cause worn or seized cylinder, piston and piston rings. Clean or replace with new ones if necessary.

18. EVAPORATIVE/EXHAUST EMISSION CONTROL SYSTEM

SECONDARY AIR CLEANER

REMOVAL

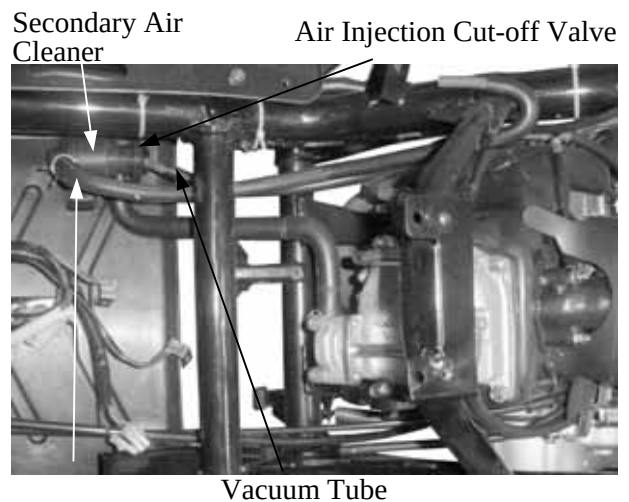
- Remove the met-in box. (⇒2-3)
- Remove the center cover. (⇒2-3)
- Remove the rear seat and rear carrier. (⇒2-3)
- Remove the frame body covers. (⇒2-4)
- Remove the floor board. (⇒2-4)



Disconnect the secondary air cleaner connecting tube.
Remove the air cleaner attaching the air cleaner.

INSTALLATION

The installation sequence is the reverse of removal.



Tube to Reed Valve

DISASSEMBLY

Remove the two secondary air cleaner
replace with new secondary air cleaner.

*

- The secondary air cleaner must be assembled and installed properly to avoid dust entering the air cleaner.

