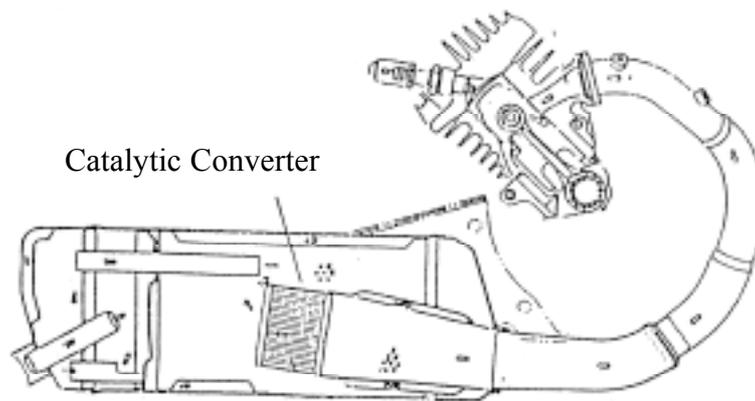

**EVAPORATIVE/EXHAUST EMISSION
CONTROL SYSTEM**

EXHAUST EMISSION CONTROL SYSTEM 17-1
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EXHAUST EMISSION RELATED SYSTEM INSPECTION..... 17-3

EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system adopted by this model is an oxidizing catalytic converter which is located in the middle of the exhaust muffler to reduce pollutants in the exhaust emission.

Exhaust Muffler Diagram



FUNCTION

Item	Purpose	Function
Oxidizing Catalytic Converter	Reduce the concentration of HC and CO in the exhaust emission.	The precious metal in the oxidizing catalytic converter is used to oxidize HC and CO in the exhaust emission into CO ₂ and H ₂ O to avoid air pollution.

TROUBLESHOOTING

Lack of power and high CO & HO

1. Clogged exhaust muffler
2. Faulty oxidizing catalytic converter
3. Carburetor adjusted improperly
4. Clogged air cleaner
5. Faulty spark plug
6. Incorrect ignition timing

Engine runs erratic at idle speed and high fuel consumption

1. Clogged exhaust muffler
2. Clogged carburetor
3. Clogged air cleaner
4. Faulty spark plug
5. Incorrect ignition timing

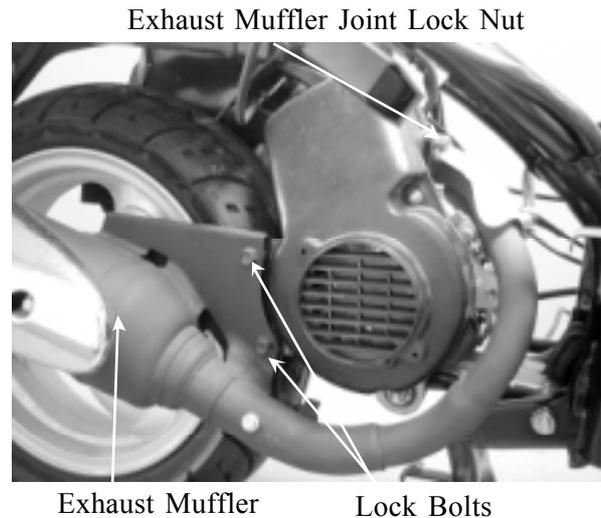
EXHAUST MUFFLER

REMOVAL

Remove the two exhaust muffler joint lock nuts and two exhaust muffler lock bolts. Remove the exhaust muffler.

*

- The temperature of exhaust muffler is very high. Be careful to avoid burns during working.



INSPECTION

1. Inspect the exhaust muffler and joint for damage or crack. Replace if necessary.
2. Inspect the exhaust muffler joint packing collar for deformation or damage. Replace if necessary.

INSTALLATION

1. Install the exhaust muffler in the reverse order of removal.

*

- A large amount of unburned mixture flowing into the high-heat catalytic converter will burn again and cause damage to the converter due to overheat. Pay attention to the following.
- Use 92# or 95# nonleaded gasoline only. (Leaded gasoline will cause catalytic converter failure.)
- During riding, do not turn the ignition switch OFF to avoid a large amount of unburned mixture flowing into the exhaust muffler.
- Faulty ignition system or fuel system will cause overheat and damage to the catalytic converter.

EXHAUST EMISSION RELATED SYSTEM INSPECTION

Clean or replace the air cleaner.

Clean and adjust the carburetor.

Inspect the auto bystarter system.

Clean and inspect the spark plug.

Inspect the ignition system.

EXHAUST EMISSION TEST AND ADJUSTMENT

1. Start the engine and warm up for several minutes. (Engine surface temperature 50°C _ 60°C) $\begin{matrix} +100 \\ -50 \end{matrix}$
2. Adjust the idle speed to:: $2000\pm 100\text{rpm}$
3. Connect the emission tester sampling pipe to the exhaust muffler.
Standard:
CO: $3\pm 0.5\%$
HC: 7000PPM max.
4. If CO or HC exceeds the specified values, adjust the carburetor air screw (A.S.) until CO and HC are within the specified standard values.
A.S. Opening: $1 \pm$ turns
5. If the adjustment of carburetor makes no difference, inspect exhaust emission related system.