

# ENGINE TUNE-UP

**GROUP**

**18**

## CONTENTS

1. COMPRESSION TEST .....	173
2. SERVICE SPARK PLUGS .....	174
3. CHECK AND ADJUST IGNITION TIMING .....	174
4. SERVICE BATTERY .....	174
5. ADJUST VALVE TAPPET CLEARANCE .....	174
6. ADJUST CAM CHAIN .....	174
7. SERVICE AIR CLEANER .....	174
8. CHECK AND SERVICE FUEL SYSTEM .....	174
9. ADJUST CARBURETOR .....	174
10. CHANGE OIL AND OIL FILTER .....	174
11. ROAD TEST .....	174

The engine tune-up referred herein is the diagnosis for the determination of the cause of the engine malfunction, lack of power or abnormal fuel consumption, and the maintenance and servicing task to adjust the engine to its best operating condition. The processes described below is confined within the scope of preventive maintenance operation and does not constitute an overhaul or disassembling. It is recommended that the sequence of operation outlined below be followed when performing the tune-up.

The engine tune-up operations are basically a part of the periodical maintenance except compressions test of engine. Therefore, for the operations other than the compression test and road test, refer to the pertinent part of the Group of Periodical Maintenance.

### 1. COMPRESSION TEST

Before a tune-up is performed, the engine must be in a condition suitable for tuning up. This can be determined by first checking the compression of each cylinder to assure that the compression pressure is normal. This test is conducted with the engine properly serviced with engine oil and warmed up to operating temperature, and then following the procedure below.

- a. Remove all the spark plugs from the cylinder head. After the spark plug has been removed, carefully clean the areas around the spark plug hole and seat to remove any dirt and grease.
- b. Insert the end of the compression gauge into the spark plug hole and make sure that it is properly seated.