

## CYLINDER COMPRESSION TEST

## Reason:

Determines the condition of rings, piston, valves and cylinder walls.

## Equipment:

JTM55 Compression Gauge

## Procedure:

1. Warm-up engine by running at MEDIUM idle for five minutes.



2. Disconnect and ground spark plug wire away from spark plug hole.
3. Remove spark plug and install JTM55 compression gauge (A).
4. Move throttle control to full idle position. Pull recoil starter handle slowly and record pressure reading.

**Specification:**  
 minimum ..... 543 kPa (50.0 psi)  
 maximum ..... 621 kPa (90.0 psi)

**NOTE:** Engine has compression release on exhaust valve, and will not obtain full compression pressure until reaching operating speed. Specifications given are obtained with recoil starter.

5. If pressure reading is low, perform the following:
6. Remove pressure gauge, and put one-inch (1 in.) clean engine oil or piston rings through spark plug hole.

**IMPORTANT:** DO NOT use more than 1 oz. of oil. Any more may cause engine to lock up hydraulically and damage piston and/or head.

7. Repeat compression pressure test. Record test reading.

If compression pressure increases significantly, check rings, piston and cylinder bore for broken rings, scoring, wear or damage.

If compression pressure did not increase, check for leaking valves, valve seats or cylinder head gasket.

## VALVE CLEARANCE TEST AND ADJUSTMENT

## Reason:

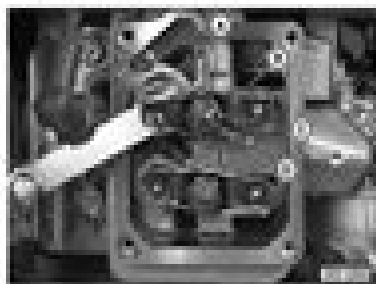
Check and adjust valve clearance for proper engine operation.

## Equipment:

Feeler Gauge

## Procedure:

1. Remove rocker cover and spark plug.
2. Rotate crankshaft until the piston is at highest position of compression stroke.



3. Insert feeler gauge between valve stem (A) and rocker arm (B).
4. Check the clearance between the bottom of each valve stem and the tipper using a flat feeler gauge.

## Valve Clearance Specification:

Intake (cold) ..... 0.12 mm (0.005 in.)  
 Exhaust (cold) ..... 0.12 mm (0.005 in.)

## Results:

- If valve clearance is not to specification, loosen lock nut (C) and turn rocker arm plate (C) to obtain 0.2 mm (0.01 in.) clearance. Tighten lock nut to 7 ft-lb (9.4 N-m).
- Turn lock nut clockwise to obtain 0.12 mm (0.005 in.) clearance.

**NOTE:** Before replacing rocker cover, perform compression release operation test.

## COMPRESSION RELEASE OPERATION TEST

## Reason:

Verify operation of compression release.

## Procedure:

1. Perform valve clearance check before proceeding.



2. Remove spark plug to ease hand cranking.
3. Slowly rotate crankshaft and watch valves. Exhaust valve (B) should lift freely just as intake valve (A) closes.
4. Use a feeler gauge to measure exhaust valve movement. Movement should be 0.50 mm (0.020 in.).

## Results:

- If lift is less than specification, or not at all, compression release is not operating. Repair or replace as needed.

## CRANKCASE VACUUM TEST

## Reason:

To determine the operation of breather, condition of seals, pistons, rings, piston and cylinder walls. Prevent pressure buildup which would cause oil leakage.

## Equipment:

- JTM557 12-Inch Manometer or JTM553 Vacuum Gauge
- 0.21-1.00 Plug
- JTM552 Leak Fitting
- JTM556 Lube

## Connections:

1. Connect tubing from manometer (A) or vacuum gauge (C) to leak fitting and install leak fitting (B) in plug.

**NOTE:** For manometer: Do not use more than 1 ft. of manometer tubing. If a longer tubing is used the manometer readings will be inaccurate. Open top valve one turn and oil side rated scale at 17" is located where water level on both sides is even.

## Procedure:

**NOTE:** This procedure may be performed with either the JTM557 12-Inch Manometer (A) or JTM553 Vacuum Gauge (C).

**IMPORTANT:** Do not make connections between manometer (A) and engine before engine is running or water from manometer can be drawn into the engine crankcase.

1. Run engine at test rate (20% to 75 rpm) and engine reaches operating temperature.



# Ja65 Service Manual

**Thirumalaisamy P.**  
**Velavancorresponding**



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