

► TASK Perform cylinder cranking and running compression tests; determine necessary action.

MLR
8A4

AST
8A7

MAST
8A7

Time off: _____

Time on: _____

Total time: _____

CDX Tasksheet Number: C709

1. Research the procedure and specifications for performing both a cranking compression test and a running compression test on this vehicle in the appropriate service information.
2. **List the conditions that must be met for the cranking compression test to be accurate (you may paraphrase):**

3. Specifications

- a. Minimum compression pressure: _____ psi/kPa or %
- b. Maximum variation: _____ %

4. **Cranking Compression Test: Perform the cranking compression test following the specified procedure. The top row in the table below is a standard test and the bottom row is a wet test using a small amount of clean engine oil. The wet test would normally be performed on engines that fail the standard test. List the readings obtained for each cylinder in the table.**

Cylinder	#1	#2	#3	#4	#5	#6	#7	#8
Standard test (psi/kPa)								
Wet test (psi/kPa)								

- a. Calculate the difference between the highest and lowest cylinders (dry test): _____ %

5. **Running Compression Test: Perform the running compression test following the specified procedure. List the readings obtained for each cylinder:**

NOTE Make sure the person snapping the throttle open is ready to turn off the ignition switch if the throttle sticks open.

Cylinder	#1	#2	#3	#4	#5	#6	#7	#8
Idle (psi/kPa)								
Snap throttle (psi/kPa)								

a. Determine any necessary action(s):

6. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating

CDX Tasksheet Number: C709

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Supervisor/instructor signature _____ Date _____