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.

   a. **List the conditions that must be met for the tests to be accurate (you may paraphrase):**

2. Specifications

   a. **Minimum compression pressure: _____ psi/kpa**
   b. **Maximum variation: _____ %**

3. Cranking compression test

   a. **Perform the cranking compression test following the specified procedure. The first column is a standard test. The second column is a wet test using a small amount of clean engine oil. List the readings obtained for each cylinder:**

Cylinder	Standard Test	Wet Test
1	psi / kPa (Circle one)	psi / kPa (Circle one)
2	psi / kPa (Circle one)	psi / kPa (Circle one)
3	psi / kPa (Circle one)	psi / kPa (Circle one)
4	psi / kPa (Circle one)	psi / kPa (Circle one)
5	psi / kPa (Circle one)	psi / kPa (Circle one)
6	psi / kPa (Circle one)	psi / kPa (Circle one)
7	psi / kPa (Circle one)	psi / kPa (Circle one)
8	psi / kPa (Circle one)	psi / kPa (Circle one)

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

4. Running compression test. **Caution:** Make sure your assistant is ready to turn off the ignition if the throttle sticks during each snap throttle test.

   a. **Perform the running compression test following the specified procedure. List the readings obtained for each cylinder:**

Cylinder	Idle	Snap Throttle
1	psi / kPa (Circle one)	psi / kPa (Circle one)
2	psi / kPa (Circle one)	psi / kPa (Circle one)
3	psi / kPa (Circle one)	psi / kPa (Circle one)
4	psi / kPa (Circle one)	psi / kPa (Circle one)
5	psi / kPa (Circle one)	psi / kPa (Circle one)
6	psi / kPa (Circle one)	psi / kPa (Circle one)

Cylinder	Idle	Snap Throttle
7	psi / kPa (Circle one)	psi / kPa (Circle one)
8	psi / kPa (Circle one)	psi / kPa (Circle one)

5. Determine 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

☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4

Supervisor/instructor signature _____ Date _____