Student Tracker

Engine Block External Re-Assembly (EBER)

Name: _____

Please complete the following competencies using the proper procedures, service information, and tools. Be prepared to explain to the teacher what you did. After completion of each competency, your teacher will initial next to each number.

Engine: _____

1. Demonstrate how to properly re-assemble engine block external components on engine block.

    Cylinder head bolt torque spec: _____

    Intake bolt torque spec: _____

    Oil pan bolt torque spec: _____

    Timing cover bolt torque spec: _____

    Valve covers bolt torque spec: _____

    Harmonic balancer/damper bolt torque spec: _____

    Dress sealing areas with fine sandpaper (cylinder head, intake, oil pan, valve covers, timing chain cover, etc.) and clean

    Install head gasket and cylinder heads

    Install pushrods and rocker arms

    Install intake

    Install timing chain cover

    Install oil pump, oil pan pickup and oil pan

    Install harmonic balancer/damper

    Install valve covers

2. Demonstrate how to check engine block external components for proper re-assembly.

    Adjust valves

    Turn crankshaft (you should feel resistance at times due to compression but otherwise it should be smooth)