

Meets ASE Task: A1 - C-4 - P-2



Engine Block Crack Detection and Warpage

Name:_____ Date:____ Time on Task:_____ Make/Model/Year:______ VIN:_____ Evaluation (Enter number from 4, 3, 2, 1): 1. Clean the engine block and visually inspect for damage. 2. Check the engine block for cracks. Which method(s) was used? ☐ ____ magnetic (Magnafluxing®) □_____ dye penetrant (red dye and white powder) ☐ fluorescent penetrant (Zyglo®) □ pressure testing 3. If cracks were detected, what was the solution? □ replace the head/block □ stop drilling □ welding □____ crack plugging □_____ other (describe) ______ 4. Use a precision straight edge and a feeler (thickness) gauge to check the block deck for warpage, distortion, bend, and twist by checking in five places. 5. Maximum thickness of feeler gauge that could be placed between the straight edge and the head is inches. **OK** \square **NOT OK** \square 6. What is the necessary action?