

Cleaning and Crack Detection

Meets ASE Task: (A1-B-2) P-1, (A1-C-3) P-2 Inspect for cracks in cylinder head.
Check for cracks in engine block.

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 1. Double-check that all components, bolts, and plugs have been removed from the cylinder(s) and block.

_____ 2. Method used to clean the cylinder head(s) and/or block (check all that apply):

CAUTION: Do not use steel or metal tools or scrapers on aluminum parts. Use only wooden or plastic scrapers.

_____ solvent-based cleaning

_____ water-based chemical cleaning

_____ spray washing

_____ steam cleaning

_____ thermal oven cleaning

_____ cold tank chemical cleaning

_____ hot tank chemical cleaning

_____ vapor cleaning

_____ ultrasonic cleaning

_____ vibratory cleaning

_____ blasting with shot

_____ 3. Visual inspection for faults. _____ **OK** _____ **NOT OK** (describe) _____

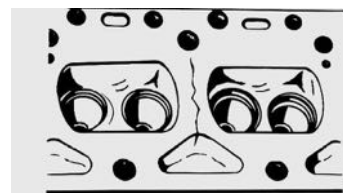
_____ 4. Check the cylinder head(s) and block for cracks. Which method(s) was used?

_____ magnetic (Magnafluxing®)

_____ dye penetrant (red dye and white powder)

_____ fluorescent penetrant (Zyglo®)

_____ pressure testing



_____ **OK** _____ **NOT OK** (describe) _____

_____ 5. If cracks were detected, what was the solution?

_____ replace the head/block

_____ stop drilling

_____ welding

_____ crack plugging

_____ other (describe) _____