CASE

REPAIR MANUAL

5.9 Litre Diesel Engine 6TAA-590 - CX210

8-26441

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TABLE OF CONTENTS

RUN-IN INSTRUCTIONS 3

ENGINE SPECIFICATION DETAILS
- Cylinder Block 4
- Service Cylinder Sleeve 4
- Piston 4
- Piston Pin 4
- Piston Rings 5
- Cylinder Head 5
- Tappets 5
- Connecting Rod 5
- Crankshaft 6
- Camshaft 7
- Valve Push Rod Lifters 7
- Gear Train 7
- Rocker Arm Assembly 7
- Turbocharger 7
- Intake Valve 8
- Exhaust Valve 8
- Valve Springs 8

SPECIAL TORQUES 9-11

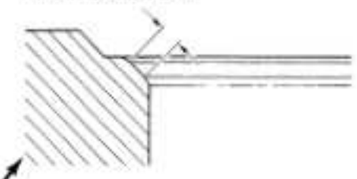
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DIAGNOSIS OF DIFFERENT DYE PATTERNS
45 Degree Exhaust valves

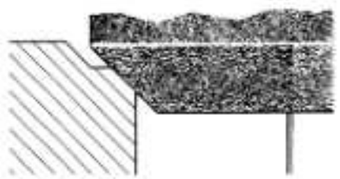
SEAT CONTACT AREA ON THE VALVE TOO LOW



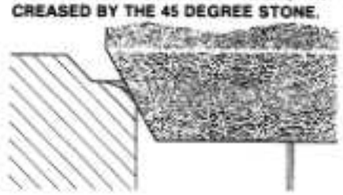
IF THE VALVE CONTACT AREA ON THE SEAT LOOKS LIKE THIS (A SEAT THAT HAS BEEN GROUND).



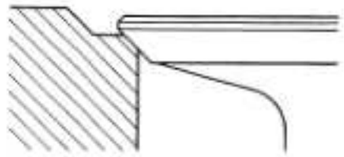
→ USE A 45 DEGREE STONE TO LIFT AND TO MAKE WIDER, THE CONTACT AREA.



→ USE A 60 DEGREE STONE TO NARROW THE LOWER CONTACT AREA, INCREASED BY THE 45 DEGREE STONE.

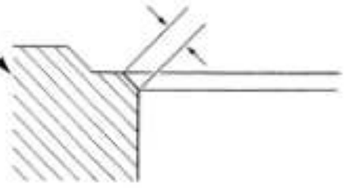


→ CHECK THAT THE VALVE HEAD IS NOT RECESSED MORE THAN 1.52 mm, BELOW THE CYLINDER HEAD SURFACE.

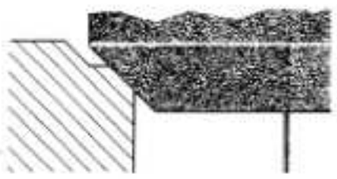


→ IF THE VALVE HEAD IS RECESSED MORE THAN 1.52 mm, REPLACE THE VALVE AND INSTALL A VALVE SEAT.

IF THE VALVE CONTACT AREA ON THE SEAT LOOKS LIKE THIS.



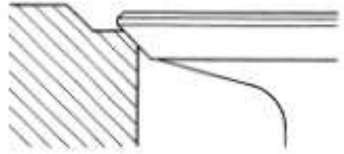
→ USE A 45 DEGREE STONE TO LIFT THE CONTACT AREA.



→ USE A 60 DEGREE STONE TO LIFT AND NARROW THE LOWER CONTACT AREA.



→ CHECK THAT THE VALVE HEAD IS NOT RECESSED MORE THAN 1.52 mm BELOW THE CYLINDER HEAD SURFACE.

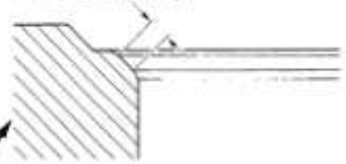


→ IF THE VALVE HEAD IS RECESSED MORE THAN 1.52 mm, REPLACE THE VALVE AND INSTALL A VALVE SEAT.

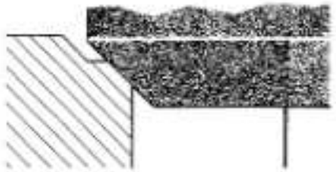
SEAT CONTACT AREA ON THE VALVE TOO HIGH



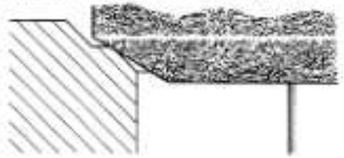
IF THE VALVE CONTACT AREA ON THE SEAT LOOKS LIKE THIS (A SEAT THAT HAS BEEN GROUND).



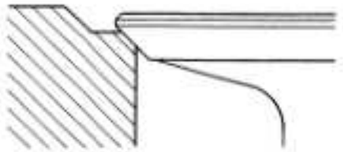
→ USE A 45 DEGREE STONE TO LOWER AND TO MAKE WIDER, THE CONTACT



→ USE A 30 DEGREE STONE TO NARROW THE UPPER CONTACT AREA, INCREASED BY THE 45 DEGREE STONE.

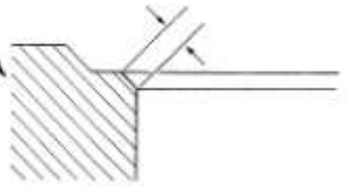


→ CHECK THAT THE VALVE HEAD IS NOT RECESSED MORE THAN 1.52 mm, BELOW THE CYLINDER HEAD SURFACE.



→ IF THE VALVE HEAD IS RECESSED MORE THAN 1.52 mm, REPLACE THE VALVE AND INSTALL A VALVE SEAT.

IF THE VALVE CONTACT AREA ON THE SEAT LOOKS LIKE THIS.



→ THE VALVE MUST BE REPLACED AND A VALVE SEAT MUST BE INSTALLED BECAUSE MORE GRINDING WILL NOT CHANGE THE LOWER CONTACT POINT.

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