

# JCS

15626 CYPRESS STREET, IRWINDALE, CA., 91706 (626) 338-6003

## JCS VW WATERBOXER ENGINE LIMITED WARRANTY

JCS REBUILT ENGINES are warranted to the original owner to be free from defects in materials and work-ship for a period of one year from date of purchase or 12,000 miles, which ever comes first, provided the warranty information is returned within one week of installation.

A failure due to improper installation, overheating, incorrect timing, contaminated oil, or abuse will not be covered. Warranty shall not apply to engines installed with aftermarket or missing accessories on the engine that in the determination of JCS affected its performance or reliability. Because overheating is caused by improper installation or incorrect adjustment of accessories, JCS ENGINES are not warranted against damage from overheating. This damage shows up as burnt pistons, seized rings or loose cylinder heads.

If a JCS ENGINE is found to be defective in material or workmanship during its applicable limited warranty period and the customer returns (or ships prepaid) the defective longblock, JCS at its option will repair or replace said longblock with no charge to the customer with the exception of delivery charges. JCS will not assume any responsibility for towing, inconvenience or time lost while vehicle is out of service. Our liability under the terms of the warranty is limited to repair or replacement of the long block as supplied. Final determination and authorization with regards to warranty repairs of any degree rests with JCS.

(see reverse side)

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detach & return

VEHICLE LIC# \_\_\_\_\_ VEHICLE MILEAGE \_\_\_\_\_

MODEL \_\_\_\_\_ YEAR \_\_\_\_\_ ENG # \_\_\_\_\_ ENG TYPE \_\_\_\_\_

CUSTOMER NAME \_\_\_\_\_ PHONE # \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_ DATE INSTALLED \_\_\_\_\_

NAME OF INSTALLER \_\_\_\_\_ PHONE# \_\_\_\_\_

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ ST \_\_\_\_\_ ZIP \_\_\_\_\_

I HAVE READ THE WARRANTY AND AM SATISFIED WITH THE INSTALLATION.

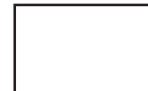
OWNERS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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The proper installation includes bleeding of the entire water cooling system. If this is not done correctly the rubber gasket under the cylinder heads can split open. This could allow coolant to leak out of the system and cause overheating. It is also recommended replacing all hoses, thermostat and o-ring and the radiator cap. To bleed the system after the engine is installed follow directions below...

1. Set the heater control to maximum heating.
2. Open the control valve for the auxiliary heater under rear seat
3. Remove radiator grille.
4. Raise vehicle approx. 16 inches at the front under crossmember.
5. Open bleeder screw on the radiator
6. Open bleeder valve in engine compartment.
7. Fill coolant until expansion tank is full.  
This will take approx. 5 quarts.  
Use only phosphate free antifreeze.
8. Start engine.
9. At approx. 2000RPM top off tank until coolant flows from bleeder screw on radiator bubble free.
10. Add coolant until tank is full and close with cap.
11. Turn ignition off and start again after 20 seconds.
12. At about 2000 RPM open cap of expansion tank.
13. Close the bleeder screw on the radiator when the coolant flows out.
14. Add coolant if necessary and close expansion tank.
15. Close bleeder valve in engine compartment.
16. Turn engine off.
17. Top off refill tank with coolant.
18. Fill refill tank to max mark.
19. Pressure test the system at 14.5 psi.



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