1085B, 1086B Cruz Air Excavator

Service Manual

8-44630

CASE CONSTRUCTION

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1001

SAFETY RULES, SERVICE MANUAL INTRODUCTION, AND TORQUE SPECIFICATIONS

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Written In *C*lear *A*nd *S*imple *E*nglish

CASE CORPORATION

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SAFETY RULES

This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death. 1-1-C

NOTE: *To prevent injury on job, follow the Warning, Caution, and Danger notes in this section and other sections throughout this manual. Follow the instructions carefully.*

The procedures recommended and shown in this manual are good, effective service methods. However, all possible procedures and service hazards may not be covered. Therefore, if you use a tool or procedure not recommended, you must make sure that the method you select is a safe method.

Put the warning tag shown below on the key for the key switch when you are servicing or repairing this machine. One warning tag is on every new machine. You can buy additional warning tags, part number 331-4614, from Service Parts Supply.



WARNING: *Read operator's manual to familiarize yourself with control lever functions.* 46-27

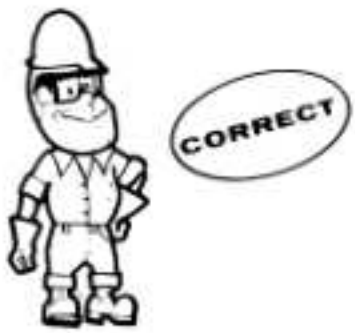
WARNING: *Operate tractor and equipment controls from the seat position only. Any other method could result in serious injury.* 48-55

WARNING: *This is a one man machine, no riders allowed.* 35-8

WARNING: *Before starting engine, study operator's manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating.*

It is your responsibility to understand and follow manufacturer's instructions on machine operation, service, and to observe pertinent laws and regulations. Operator's and service manuals may be obtained from your J I Case dealer. 45-2

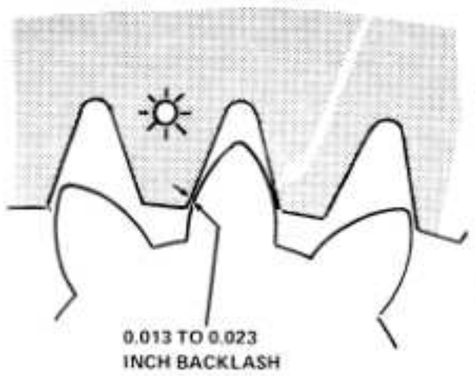
WARNING: *If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.* 45-3-A



WARNING: *When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.* 35-4

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PINION GEAR AND OPEN GEAR BACKLASH AND TOOTH PATTERN

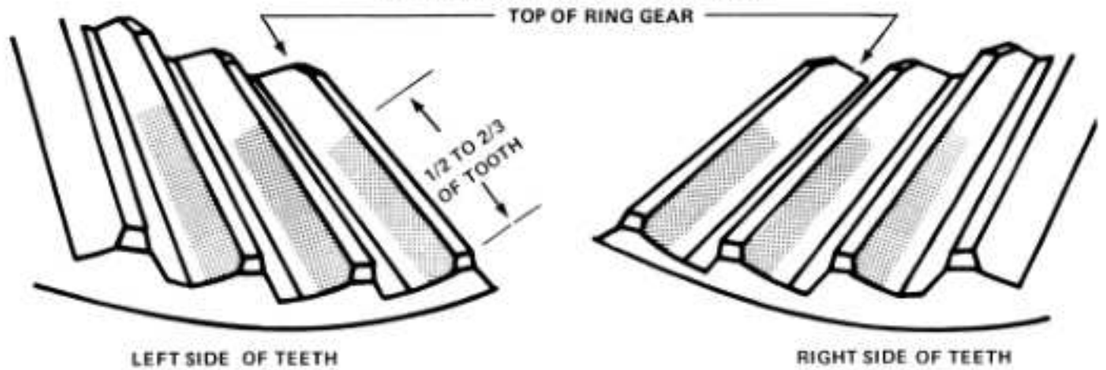


BACKLASH

Specification: 0.013 to 0.023 inch (0.33 to 0.58 mm) measured at smallest diameter of ring gear (identified by green paint or embossed "O" on top of ring gear tooth).

Adjustment: Reposition mounting plate for swing gearbox. See "Procedure for Mounting and Welding Swing Gearbox Mounting Plate". No amount of shimming can correct wrong backlash.

CORRECT TOOTH PATTERN



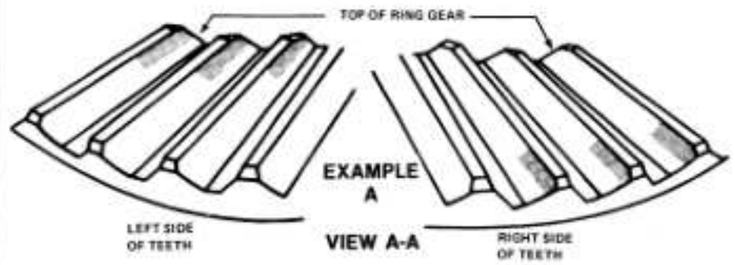
Specification: Pinion gear must wipe bottom ½ to ⅔ of ring gear tooth and be equal on both sides of tooth.

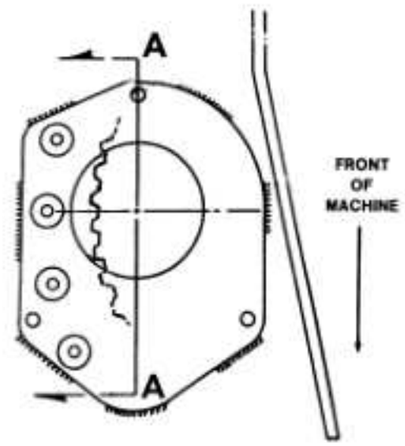
Adjustment: See Wrong Tooth Patterns.

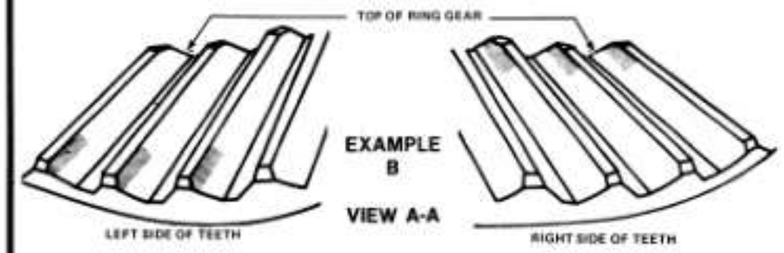
WRONG TOOTH PATTERNS

Condition: Pinion gear is hitting high on one side of tooth and low on other side. Pinion gear is obviously out of alignment in relation to ring gear.

Adjustment: Add maximum of 0.020 inch (.501 mm) under rear mounting bolt for swing gearbox if gear tooth pattern is as shown in Example B. Subtract shims under rear mounting bolt, or add maximum of 0.020 inch (.501 mm) under each of two front mounting bolts if pattern is as shown in Example A.

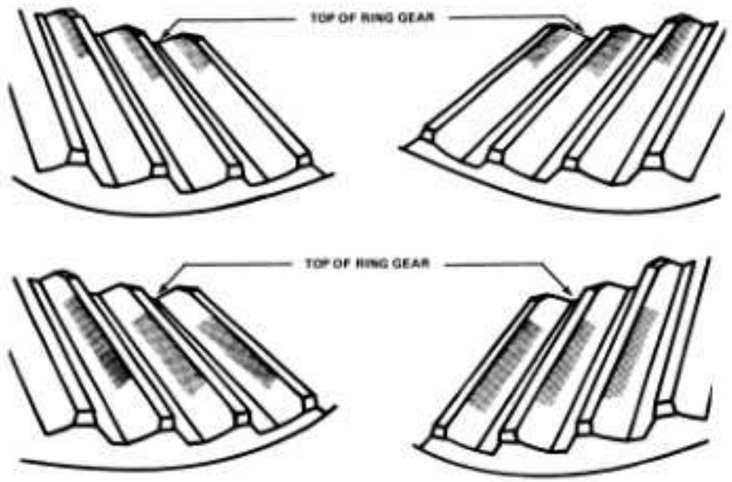






Condition: Pinion gear is hitting on upper ⅓ or at midpoint of ring gear tooth, with equal pattern on both sides of tooth.

Adjustment: Reposition mounting plate for swing gearbox. See "Procedure for Mounting and Welding Swing Gearbox Mounting Plate."



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