

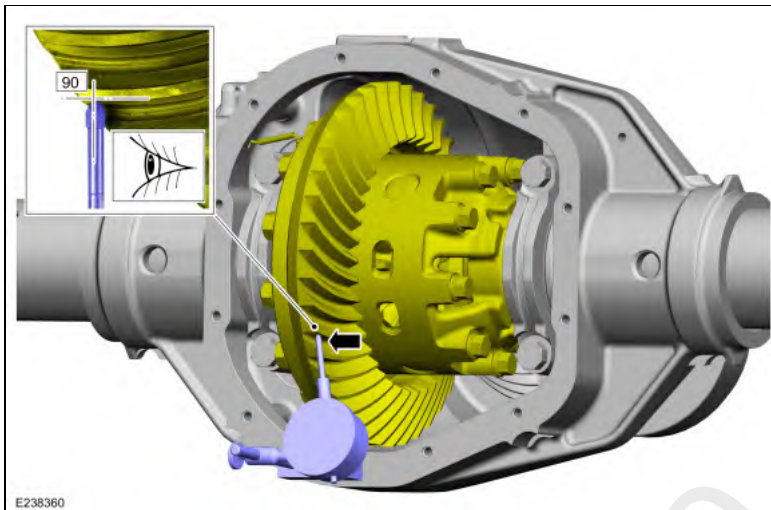
Ring Gear Backlash Adjustment

Special Tool(s) / General Equipment

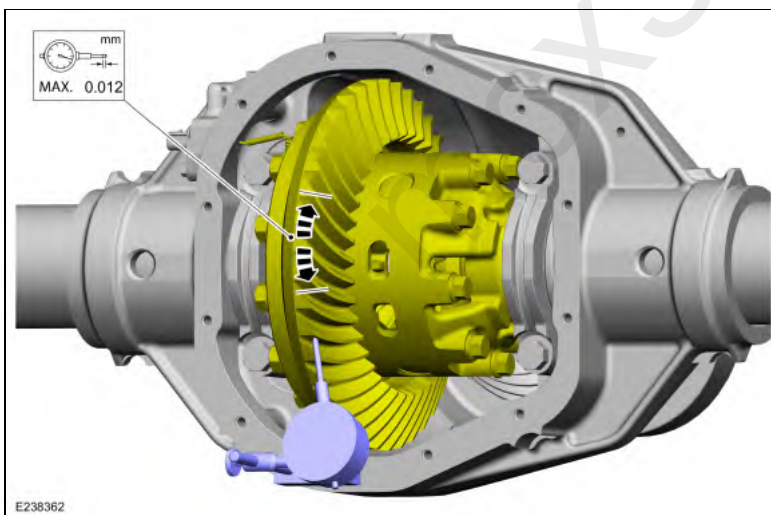
Dial Indicator

Adjustment

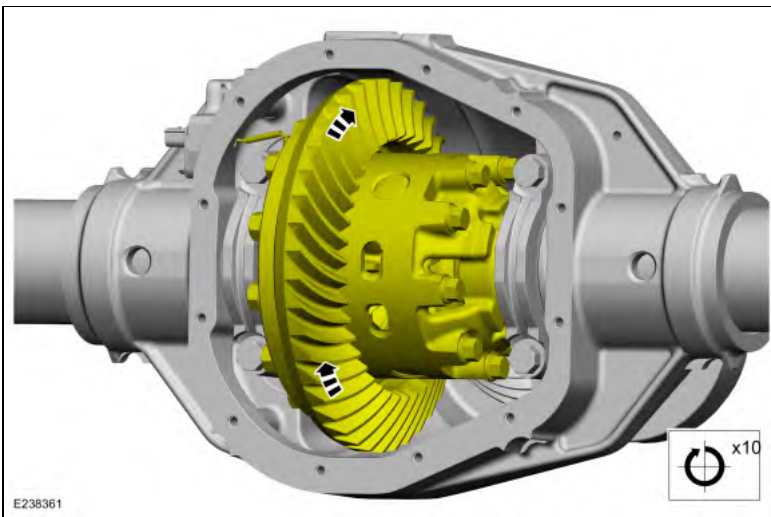
1. Remove the differential housing cover.
Refer to: Differential Housing Cover (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
2. Install the dial indicator gauge with holding fixture, with the dial indicator at a 90 degree angle from the ring gear tooth.
Use the General Equipment: Dial Indicator



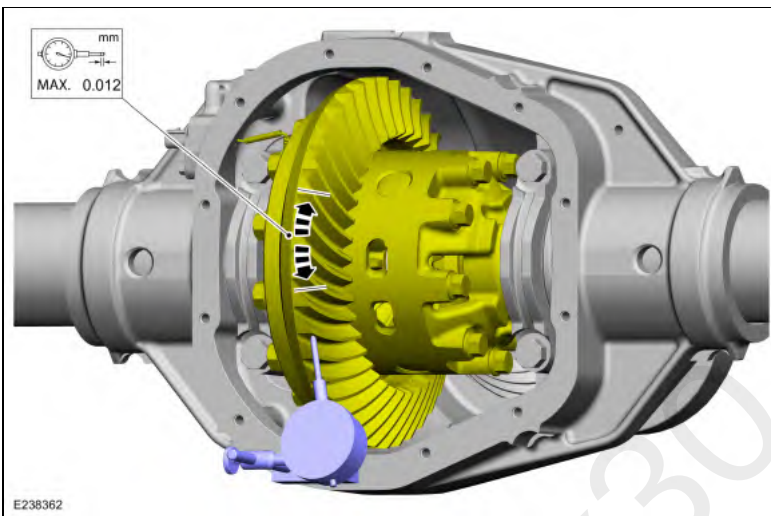
3. Using the dial indicator check the ring gear backlash. Rotate the ring gear and carrier back and forth through the free play only.
Refer to: Specifications (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Specifications).
Use the General Equipment: Dial Indicator



4.
 - To correct for high or low backlash, increase the thickness of one differential bearing shim and decrease the thickness of the other differential bearing shim by the same amount.
 - If a zero backlash condition had occurred, add 0.50 mm (0.020 in) to the RH side shim and subtract 0.50 mm (0.020 in) from the LH side shim to allow a backlash indication. Recheck backlash.
 - Using the backlash chart, determine the thickness of differential shim needed:
Refer to: Specifications (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Specifications).
5. If a backlash correction is to be made, replace the differential shims with the new previously selected differential shims.
Refer to: Differential Carrier (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
6. Rotate the differential several times, to assure the differential assembly rotates freely.



7. Using the dial indicator gauge with holding fixture, do a final check of the ring gear backlash.
Use the General Equipment: Dial Indicator



8. Verify an acceptable ring gear tooth pattern check.
Refer to: Rear Drive Axle and Differential (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Diagnosis and Testing).
9. Install the differential housing cover.
Refer to: Differential Housing Cover (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).