

Field Realignment of Two-Bearing Generators

1. Remove guard around coupling section.
2. Remove starter motor and replace with engine barring tool.
3. Removal of the intake manifold may be beneficial but not necessary.
4. Place the base for a dial indicator on the shaft of the generator and the indicator tip on the outside of the coupling. Rotate the engine using the barring tool and take readings at every quarter turn. Compare the readings with the allowable tolerances for radial displacement from the engineering bulletin.
5. With the dial indicator base on the shaft still place the indicator on the face of the coupling. Rotate the engine using the barring tool and take readings every quarter turn. Compare the reading with the allowable tolerances for angular displacement from the engineering bulletin.
6. If the previous measurements are within the tolerances provided on the engineering bulletin, no further operations need to be performed. The engine barring tool can be removed and replaced with the starter. The guard can be replaced on the coupling section. If the intake manifold was removed it must be properly replaced.
7. If the previous measurements are not within the tolerances provided on the engineering bulletin, adjustments must be made with the placement of the alternator.
 - a. If the radial displacement is out of tolerance, shims must be added or removed from both the front and rear generator supports accordingly.
 - b. If the angular displacement is out of tolerance, shims must be added or removed from the front or the rear support of the generator until the angular displacement is within tolerance.
8. Repeat steps 4 through 5 until they are within the provided tolerances.