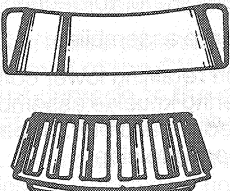
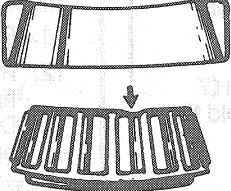
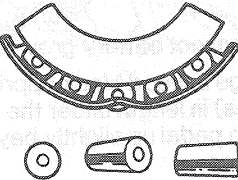
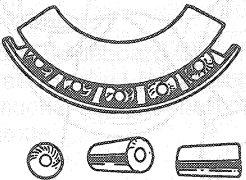
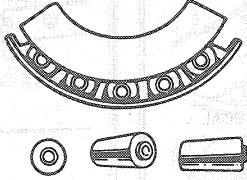
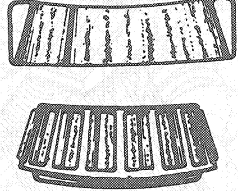
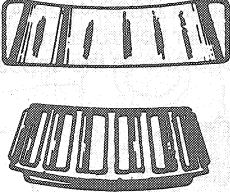
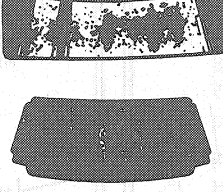
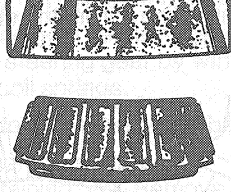


DIAGNOSIS (Continued)

BEARING DIAGNOSIS

CONSIDER THE FOLLOWING FACTORS WHEN DIAGNOSING BEARING CONDITION:

1. GENERAL CONDITION OF ALL PARTS DURING DISASSEMBLY AND INSPECTION.
2. CLASSIFY THE PROBLEM WITH THE AID OF THE ILLUSTRATION.
3. DETERMINE THE CAUSE.
4. MAKE ALL SERVICES FOLLOWING RECOMMENDED PROCEDURES.

 <p style="text-align: center;">GOOD BEARING</p>	 <p style="text-align: center;">BENT CAGE</p> <p>CAGE DAMAGE DUE TO IMPROPER HANDLING OR TOOL USAGE.</p> <p>REPLACE BEARING</p>	 <p style="text-align: center;">BENT CAGE</p> <p>CAGE DAMAGE DUE TO IMPROPER HANDLING OR TOOL USAGE.</p> <p>REPLACE BEARING.</p>
 <p style="text-align: center;">GALLING</p> <p>METAL SMEARS ON ROLLER ENDS DUE TO OVERHEAT, LUBRICANT PROBLEM OR OVERLOAD.</p> <p>REPLACE BEARING — CHECK SEALS AND CHECK FOR PROPER LUBRICATION.</p>	 <p style="text-align: center;">CRACKED INNER RACE</p> <p>RACE CRACKED DUE TO IMPROPER FIT, COCKING, OR POOR BEARING SEATS.</p>	 <p style="text-align: center;">ETCHING</p> <p>BEARING SURFACES APPEAR GRAY OR GRAYISH BLACK IN COLOR WITH RELATED ETCHING AWAY OF MATERIAL USUALLY AT ROLLER SPACING.</p> <p>REPLACE BEARINGS — CHECK SEALS AND CHECK FOR PROPER LUBRICATION.</p>
 <p style="text-align: center;">BRINELLING</p> <p>SURFACE INDENTATIONS IN RACEWAY CAUSED BY ROLLERS EITHER UNDER IMPACT LOADING OR VIBRATION WHILE THE BEARING IS NOT ROTATING.</p> <p>REPLACE BEARING IF ROUGH OR NOISY.</p>	 <p style="text-align: center;">HEAT DISCOLORATION</p> <p>HEAT DISCOLORATION IS DARK BLUE RESULTING FROM OVERLOAD OR NO LUBRICANT (YELLOW OR BROWN COLOR IS NORMAL).</p> <p>EXCESSIVE HEAT CAN CAUSE SOFTENING OF RACES OR ROLLERS.</p> <p>TO CHECK FOR LOSS OF TEMPER ON RACES OR ROLLERS A SIMPLE FILE TEST MAY BE MADE. A FILE DRAWN OVER A TEMPERED PART WILL GRAB AND CUT METAL, WHEREAS, A FILE DRAWN OVER A HARD PART WILL GLIDE READILY WITH NO METAL CUTTING.</p> <p>REPLACE BEARINGS IF OVER HEATING DAMAGE IS INDICATED. CHECK SEALS AND OTHER PARTS.</p>	 <p style="text-align: center;">FATIGUE SPALLING</p> <p>FLAKING OF SURFACE METAL RESULTING FROM FATIGUE.</p> <p>REPLACE BEARING — CLEAN ALL RELATED PARTS.</p>

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