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## COOLING SYSTEM—N3

**To dismantle water pump (see fig. N3)**

1. Remove water pump pulley by the use of a suitable tool (see fig. N3). The tool listed in the pulley can be used for this purpose.
2. Press water pump shaft (2) complete with bearings and impeller (7) out through rear of pump body (1).
3. Press shaft and bearing assembly out of impeller.
4. Remove ceramic counterface (6), seal (5) and thrust washer separate (4) from water pump shaft.

The water pump shaft and bearings are a complete assembly and can not be dismantled.

**Note:** Later water pumps are fitted with a one piece 'vector' type seal which includes the counterface and thrust (See fig. N4A).

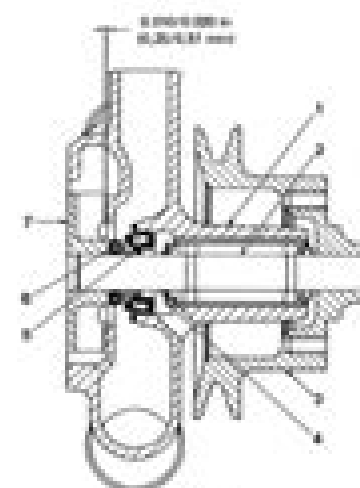
**To assemble water pump (see fig. N4)**

1. With the shorter end of the water pump shaft to the front, press the shaft and bearing assembly (2) into rear of water pump (1) until the end of the bearing housing aligns with the front of the water pump body.
2. Fit thrust washer separate (4) end seal (5) with carbon face to rear of pump and flange against the inside face of water pump body.
3. Fit ceramic counterface (6) to shaft with ceramic insert towards seal.
4. With a support on the front end of the water pump shaft, press impeller (7), with blades towards, on rear of shaft until there is a clearance of 0.25 mm (0.010 in) to 0.51 mm (0.020 in) between blades of impeller and pump body (see fig. N5).
5. Ensure pump turns freely.
6. Fit any sealwires that can not be put in place before the pulley is fitted. These sealwires have aluminium sealing washers.
7. With a support on the impeller end of the water pump shaft, press on water pump pulley until the front end of pulley aligns with front end of shaft. Where the fan mounting face is extended forward (see fig. N6), press the pulley on the water pump shaft until the fan mounting face is 1.80-1.89 mm (0.071 in) from the rear face of the pump body.
8. Check the clearance again between impeller blades and water pump body and ensure pump turns freely.

**Note:** Where a water pump is fitted with a ceramic seal and the impeller is run without contact to the water pump, the carbon seal and ceramic counterface can get very hot and will cause cracks in the ceramic. This can cause water to leak from the pump and does not always indicate that the seals have been fitted wrongly.



Fig. N3

Fig. N4  
Water Pump Assembly

1. Pump Body
2. Shaft and Bearing Assembly
3. Pulley
4. Thrustwasher
5. Seal
6. Ceramic Counterface
7. Impeller

# Perkins 3 152 Workshop Manual

**JG Myers**



### **Perkins 3 152 Workshop Manual:**

The Home Carpenter & Woodworker's Repair Manual William Perkins Spence, 2006 Author of more than a dozen books on the do it yourself bookshelves William Spence has topped them all with a massive comprehensive full color guide essential for every homeowner More than 700 photos and 900 drawings accompany the instructions for scores of carpentry and repair projects indoors and out for every room in the home When you need to repair replace or remodel any part of your home you can get the job done right whether you fix it yourself or supervise the work of professionals Hundreds of major and minor carpentry and woodworking jobs are clearly explained by an expert who knows all the shortcut skills and money saving techniques illustrated with more than 1 600 color photos illustrations diagrams and tables Projects range from installing a wall to replacing the wainscoting They cover jobs indoors and out and include updating kitchens and bathrooms and installing lighting and appliances as well as new or old ceilings and floors doors and windows cabinets and closets roofing and siding finishing attic and basement rooms and even furniture repair

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Technical Release, 1975 *Monthly Catalogue, United States Public Documents*, 1987-07 National Library of Medicine Audiovisuals Catalog National Library of Medicine (U.S.), *Forestry Economics* John E. Wagner, 2011-07-26 Forestry Economics introduces students and practitioners to all aspects of the management and economics of forestry The book adopts the approach of managerial economics textbooks and applies this to the unique processes and problems faced by managers of forests While most forestry economics books are written by economists for future economists what many future forest and natural resource managers need is to understand what economic information is and how to use it to make better

business and management decisions John E Wagner draws on his twenty years of experience teaching and working in the field of forest resource economics to present students with an accessible understanding of the unique production processes and problems faced by forest and other natural resource managers There are three unique features of this book The first is its organization The material is organized around two common economic models used in forest and natural resources management decision making The second is the use of case studies from various disciplines Outdoor and Commercial Recreation Wood Products Engineering Forest Products and Forestry The purpose of these case studies is to provide students with applications of the concepts being discussed within the text The third is revisiting the question of how to use economic information to make better business decisions at the end of each chapter This ties each chapter to the preceding ones and reinforces the hypothesis that a solid working knowledge of these economic models and the information they contain are necessary for making better business decisions This textbook is an invaluable source of clear and accessible information on forestry economics and management for not only economics students but for students of other disciplines and those already working in forestry and natural resources

**The Blue Book** ,1995 This volume provides general information on programs policies procedures and fiscal record keeping and reporting for federally funded student financial aid programs under the Higher Education Act of 1965 Title IV Chapter 1 provides an overview of Title IV programs Chapter 2 discusses general institutional responsibilities related to managing Title IV programs Chapter 3 addresses key fiscal procedures unique to managing Title IV campus based programs Chapter 4 provides a comprehensive discussion of obtaining managing and returning Title IV funds Chapter 5 describes specific accounting procedures used to manage Title IV program funds Chapter 6 addresses Title IV reporting requirements Appendixes supplementing the main chapters include a comprehensive glossary of terms related to Title IV accounting record keeping and reporting requirements a list of commonly used acronyms a list of published information sources that supplement and support the book s information information for fiscal officers on who to contact for technical assistance detailed descriptions of each Title IV program and a primer on accounting for non Title IV specialists designed to help novice fiscal officers understand how basic accounting principles apply in managing Title IV program funds

*I & T Shop Service* ,1993 The Making of the Victorian Organ Nicholas Thistlethwaite,1999-08-26 This important 1990 book provides a comprehensive survey of English organ building during the most innovative fifty years in its history

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