



# INSTRUCTIONS

GEI-260088

## POWER TRANSFORMERS

# REMOVING AND REWELDING COVERS

### INTRODUCTION

Carefully follow these instructions when removing and rewelding transformer covers. If this is done, a strong, sound joint, free from leaks, will result.

### REMOVING THE COVER

Welded covers can be removed by either chipping or oxygen gasping (to remove the weld). Oxygen gasping is considerably faster than chipping, and is recommended for all widths of 1/16 inch steel and over, where adequate precautions can be taken for the fire hazard which exists with oxygenless cutting operations.

Before weld removal is started, make a sketch of the cover weld noting the normal steel flow especially if there are locations where the weld is made large to reinforce joints of higher stress. Reweld the cover in accordance with this sketch.

### OXYGEN-GASPING METHOD

Before oxygen gasping of welds on oil-filled transformers, thoroughly flush out the air space inside the tank with carbon dioxide nitrogen or carbon dioxide. Maintain a small flow of the gas during the gasping operation. (This precaution is not necessary for Pyramul® filled transformers.)

Oxygenless cutting torch equipment is used in any case with gasping tips similar to Air Reduction Style No. 115. For best performance of the gasping operation a cutting torch similar to Ames Model 2000 having a polished nozzle of the high pressure oxygen flow is recommended. Tip sizes and gas pressures recommended for various steel weld sizes are shown in Table I.

Close the cover during the cutting operation to prevent the cutting and reacting gases and particles of metal and slag. Protect all openings against the entrance of foreign material. The entire weld may

be removed in one pass, with care to avoid deep gouging of the edges of the tank or cover. Slag and metal adhering to the cover and tank flange after gasping can be easily removed by a light chipping operation. Finish the edges of the cut joints with a file similar to preparation for rewelding. Keep the cover tightly clamped until all cleaning operations are completed.

TABLE I

Weld Size	Tip Size	Oxygen Pressure	Acetylene Pressure
1/16 in.	# 8	60 psi.	8 psi.
1/8 and 3/16 in.	# 10	70 psi.	8 psi.
1/2 in. and up	# 12	75 psi.	8 psi.

### CHIPPING METHOD

When it is desired to remove welds by chipping, this can be accomplished with diamond-point chisels and a pneumatic hammer. Clamp the cover to the flange to prevent sagging, as the weld is chipped away. Protect all openings in the cover against chips entering the transformer.

### REWELDING THE COVER

Before rewelding the cover to the transformer tank, thoroughly clean the cover edges and tank flange to remove traces of oil or Pyramul. Break both gasket surfaces with water glass (sodium silicate) compound to G-E Specification 008P34C. Attach a strip of dry asbestos gasket of approximately 1/16 inch thickness and one and a half inch width to the tank flange or cover. Fold this gasket over to make it approximately 3/4 inch wide. Locate the outer edge approximately 1/2 inch from the outer edge of the cover (see Fig. 1). Clamp the cover securely to the tank flange with several "C" clamps, bringing the cover securely down on the gasket.

On both Pyramul and oil-filled transformers, seal

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GENERAL  ELECTRIC

# Westinghouse Transformers Manual

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## **Westinghouse Transformers Manual:**

Electric Power and Energy Distribution Systems Subrahmanyam S. Venkata, Anil Pahwa, 2022-09-23 Electric Power and Energy Distribution Systems Provides a comprehensive introduction to today's electric power distribution systems perfect for advanced students and industry professionals. Due to growth of renewable resources and advances in information technology, electric power distribution systems have undergone significant changes over the past fifteen years. The expansion of technologies such as consumer rooftop solar panels, electric vehicles, smart energy storage, and automated metering infrastructure make planning and operating power distribution systems challenging. Integration of advanced technologies at the distribution level is critical for realizing higher efficiency, reliability, resiliency, and flexibility. Electric Power and Energy Distribution Systems: Models, Methods, and Applications provides comprehensive coverage of the key aspects of conventional and emerging distribution systems, including modeling methodologies, analysis, planning, economics, distribution automation, reliability, grounding, protection, power quality, and distributed energy resources. Written by experts with decades of experience in academia and industry, this textbook integrates theory and practice to present a well-balanced treatment of topics relevant to modern electric power distribution systems. Detailed chapters address modeling of distribution system components, load characteristics, and optimal selection of devices, microgrids, and other types of energy resources, the challenges associated with the planning and operation of distribution systems, and more. Covers a wide range of both legacy and contemporary issues, supported by rigorous analysis and practical insights. Provides in-depth examination of outage management, voltage control, system restoration, and other operational functions. Features real-world case studies of distribution automation functions in urban and rural power systems. Discusses technologies for distributed energy resources (DER) with a focus on wind, solar, and battery storage. Describes fundamental economics in the context of power distribution systems, such as the impact of tariffs on selling electricity to consumers of different types. Explains the architecture of distribution system protection, including fuses, reclosers, overcurrent relays, and grounding practices. The ideal textbook for advanced undergraduate and first-year graduate courses. Electric Power and Energy Distribution Systems: Models, Methods, and Applications is also an excellent reference for professionals with limited prior knowledge about distribution systems.

Electrical News, Generation, Transmission and Application of Electricity, 1903      **Bibliography of Scientific and Industrial Reports**, 1946      **Electrical World**, 1928      *Weekly Information Report*, 1989      **Proceedings of the American Institute of Electrical Engineers**, 1927. Vols for 1887-1946 include the preprint pages of the institute's Transactions.      **Journal of the American Institute of Electrical Engineers**, American Institute of Electrical Engineers, 1927. Includes preprints of Transactions of the American Institute of Electrical Engineers. ISSN 0096-3860  
**Power Plant Engineering**, 1927      **Manuals Combined: 150+ U.S. Army Navy Air Force Marine Corps Generator Engine MEP APU Operator, Repair And Parts Manuals**, Over 36,000 total pages. Just a SAMPLE of the

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**Successful Servicing** ,1940 *Electric Power Distribution Engineering* Chee-Wooi Ten, Ali Mehrizi-Sani, 2024-03-22  
Are you fascinated by the complex web of electrical power that illuminates our modern world Do you want to understand the intricate systems responsible for delivering electricity to our homes businesses and industries Look no further than *Electric Power Distribution System Engineering Fourth Edition* by renowned author Turan G nen revised and updated by Chee Wooi Ten and Ali Mehrizi Sani This captivating book takes you on a journey through the fascinating realm of electric power distribution offering a comprehensive yet accessible exploration of the engineering principles technologies and practices that

underpin this vital aspect of our daily lives Whether you re a curious non specialist an avid reader with a thirst for knowledge or a librarian or bookseller seeking an invaluable resource G nen s masterwork will both enlighten and captivate you An early leader in the academic market this book provides an overview of classical planning for electric power distribution systems which has been used for many years in designing and analyzing electric power distribution systems The authors have taken a bold initiative to update the content incorporating relevant aspects reflecting the advancements of today s evolving smart grid Within its pages readers will discover detailed discussions on the principles of power distribution including the fundamentals of power generation transmission and distribution The authors provide detailed explanations of the various components and equipment used in distribution systems such as transformers circuit breakers switches and protective devices As part of the book planning for the distribution network involves sizing and considering candidate geographical locations regions in relation to the capacity of existing infrastructure allowing for new additions to be built For example this includes locations either extending another feeder from distribution substations or building new distribution substations depending on what makes more sense Many assumptions have been made for non existing distribution feeders to calculate ballpark figures for determining voltage profile and power losses if they were to be constructed Readers will gain insights into how these considerations translate into net positive net negative or net zero loads All of these aspects can be gradually integrated with renewable energy sources innovative grid technologies and distribution automation over time The authors involved in this book have made significant contributions to the state of the art development by incorporating recent updates from the literature thereby addressing the latest advancements One remarkable feature of Turan G nen s *Electric Power Distribution System Engineering* is its strong focus on practical applications and real world scenarios In addition to providing theoretical knowledge the book also offers numerous examples that effectively bridge the gap between theory and practice This unique approach enables readers to comprehend the intricacies of distribution system engineering and apply their newfound knowledge to solve complex problems in the field By seamlessly blending theoretical foundations with practical insights Gonen s book emerges as an indispensable resource for aspiring engineers professionals and researchers as it offers a comprehensive understanding of electric power distribution systems and their practical implications

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**Electric Power Distribution Engineering, Third Edition** Turan Gonen,2014-01-06 A quick scan of any bookstore library or online bookseller will produce a multitude of books covering power systems However few if any are totally devoted to power distribution engineering and none of them are true textbooks Filling this vacuum in the power system engineering literature *Electric Power Distribution System Engineering* broke new ground Written in the

classic self learning style of the original Electric Power Distribution Engineering Third Edition is updated and expanded with Over 180 detailed numerical examples More than 170 end of chapter problems New MATLAB applications The Third Edition also features new chapters on Distributed generation Renewable energy e g wind and solar energies Modern energy storage systems Smart grids and their applications Designed specifically for junior or senior level electrical engineering courses the book covers all aspects of distribution engineering from basic system planning and concepts through distribution system protection and reliability Drawing on decades of experience to provide a text that is as attractive to students as it is useful to professors and practicing engineers the author demonstrates how to design analyze and perform modern distribution system engineering He takes special care to cover industry terms and symbols providing a glossary and clearly defining each term when it is introduced The discussion of distribution planning and design considerations goes beyond the usual analytical and qualitative analysis to emphasize the economical explication and overall impact of the distribution design considerations discussed

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