

LIGHT INSPECTION

LUBRICATION

Oil Gauging Armature & Axle Bearings

When gauging oil levels on motor armature and axle bearings, note the following information:

** The depths indicated in the following tables are as measured in the auxiliary oil wells by means of a measuring stick placed in the oil well of the motor as it sets on the truck. Do not flood the bearings.

Westinghouse Motors.

Types	Armature Bearing Oil Well				Axle Bearing Oil Well			
	Pin. Max.	End Min.	Comm. Max.	End Min.	Pin. Max.	End Min.	Comm. Max.	End Min.
76	Top Feed Design				Top Feed Design			
101-B2	4 3/4"	2 1/2"	4 1/4"	2 1/4"	2 1/4"	1 1/4"	2 1/4"	1 1/4"
112-B	4 3/4"	2 1/2"	4 1/4"	2 1/4"	2 1/4"	1 1/4"	2 1/4"	1 1/4"
306-CA2	3 1/2"	2 "	3 1/2"	2 "	4 "	2 "	4 "	2 "
307	4 1/4"	2 1/2"	3 1/2"	2 "	2 1/2"	1 1/4"	2 1/2"	1 1/4"
317-A	3 3/4"	2 "	3 3/4"	2 "	3 "	1 1/2"	3 "	1 1/2"
506	3 1/2"	2 1/2"	3 "	2 "	3 1/2"	2 "	3 1/2"	2 "
508-A	3 "	2 "	3 "	2 "	3 1/2"	2 "	3 1/2"	2 "
510-A	4 "	3 "	4 "	3 "	2 "	1 "	4 "	2 1/2"
534-Y3	4 1/4"	2 1/2"	3 1/2"	2 "	3 1/2"	2 "	3 1/2"	2 "
548	3 1/2"	2 "	3 "	1 1/2"	3 1/2"	2 "	3 1/2"	2 "
557-R5	4 1/2"	2 1/2"	4 "	2 1/2"	4 "	2 1/2"	4 1/2"	3 "

General Electric Motors

Type	Armature Bearing Oil Well				Axle Bearing Oil Well			
	Pin. Max.	End Min.	Comm. Max.	End Min.	Pin. Max.	End Min.	Comm. Max.	End Min.
200	2 1/2"		2 "		3 1/4"		3 1/4"	
201	3 3/4"	2 "	2 1/2"	1 "	3 "	1 1/2"	3 "	1 1/2"
203	3 1/2"	2 "	2 1/2"	1 "	2 1/2"	1 "	2 1/2"	1 "
205	4 "		3 1/2"					
226	3 1/2"		2 1/2"		3 "		3 "	
247	3 3/8"	1 1/2"	3 1/8"	1 1/2"	2 1/2"	1 "	2 1/2"	1 "
251	4 "		3 1/2"					
254	3 1/2"	1 1/2"	3 "	1 "	3 "	1 "	3 "	1 "
258					2 1/2"	1 "	2 1/2"	1 "
264	3 3/8"	1 1/2"	2 1/2"	1 "	2 1/2"	1 "	2 1/2"	1 "
265	3 1/4"	1 1/2"	2 7/8"	1 1/2"	3 "	1 "	3 "	1 "
275	3 3/8"	1 1/2"	2 1/2"	1 "	4 1/2"	2 1/2"	4 1/2"	2 1/2"

Standard Maintenance Guide

for

Electric Railway Equipment

Prepared and Edited by

COMMITTEE ON STANDARD MAINTENANCE PRACTICE

Transportation Section

WISCONSIN UTILITIES ASSOCIATION

105 Wells Street

Milwaukee, Wisconsin

Presented at

ANNUAL SECTION CONVENTION

August 15 and 16, 1929

EDITORS AND PUBLISHERS

Committee on Standard Maintenance Practice:

Chairman—W. G. Brooks, Westinghouse Electric & Manufacturing Co.
Grant C. Bergsland, Mississippi Valley Public Service Company.
O. A. Broten, National Pneumatic Company.
J. L. Curtiss, Wisconsin Power & Light Company.
G. F. Dougall, General Electric Company.
T. W. Faber, The Milwaukee Electric Railway & Light Company.
W. J. Fillmore, Northern States Power Company.
Chas. Gaskill, Baldwin Locomotive Works.
N. C. Rasmussen, Wisconsin Valley Electric Company.
Dean Treat, Standard Oil Company.
A. B. Wood, Westinghouse Air Brake Company.

Officers of Transportation Section:

Chairman—Henry Cordell, Chicago, North Shore & Milwaukee Railroad Company.
Vice Chairman—George Biebel, Wisconsin Public Service Corporation.

Officers of Wisconsin Utilities Association:

President—G. W. Van Derzee, The Milwaukee Electric Railway & Light Company.
Vice President—M. H. Frank, Wisconsin Power & Light Company.
Treasurer—Ewald Haase, Milwaukee Gas Light Company.
Executive Secretary—John N. Cadby, 105 Wells Street, Milwaukee.

ASSOCIATION OF RAILWAY MUSEUMS

RENEWAL PARTS COMMITTEE

This portion of the reprinting for the Association of Railway Museums 1978 annual convention has been done in co-operation with the host, the Illinois Railway Museum.

This publication, the 1929 Standard Maintenance Guide, was largely the work of one railway -- one man: Henry Cordell of the Chicago North Shore and Milwaukee Railway. The North Shore Line's enviable 99% on-time record was due to the rigid and all-encompassing maintenance and overhaul program instituted and practiced by Mr. Cordell during his half century as North Shore Line Master Mechanic.

This guide is perhaps the most comprehensive publication of its type to surface to date and it is hoped it will advance the art of museum maintenance by providing a broad base of knowledge.

The 1929 Standard Maintenance Guide has been made available to us by Mr. John Horachek, Curator of the CNS&M Mechanical Department collection. Anyone wishing information is encouraged to contact Mr. Horachek at the following address:

Mr. John Horachek
P.O. Box 65
Arcadia, IN 46030

Daniel Gornstein, Chairman
Renewal Parts Committee