



epcatalogs.com

547983EN (01/04/2019)

AXLE 212

REPAIR MANUAL

DATE OF ISSUE	OBSERVATION
10 / 07 / 2007	- 1 st ISSUE
07 / 12 / 2007	- New reference MR
06 / 05 / 2011	- Modifications pages 20,21
24 / 04 / 2012	- New EDITION cut out by language
27 / 02 / 2013	- Integration of the gearbox 602
09 / 04 / 2014	- New edition
20 / 11 / 2017	- Added ADJUSTING THE STEERING GEAR p. 58.
01 / 04 / 2017	- Updated MECHANICAL PARKING BRAKE p. 127. - Updated LIMITED SLIP DIFFERENTIAL UNIT (25% AND 45%) p. 177.

MANITOU BF S.A Limited liability company with a Board of Directors.

Head office: 430, Rue de l'Aubinière - 44150 Ancenis - FRANCE

Share capital: 39,548,949 euros

857 802 508 RCS Nantes

Tel: +33 (0)2 40 09 10 11

www.manitou.com

This manual is for information purposes only. Any reproduction, copy, representation, recording, transfer, distribution, or other, in part or in whole, in any format is prohibited. The plans, designs, views, commentaries and instructions, even the document organization that are found in this document, are the intellectual property of MANITOU BF. Any violation of the aforementioned may lead to civil and criminal prosecution. The logos as well as the visual identity of the company are the property of MANITOU BF and may not be used without express and formal authorization. All rights are reserved.

epcatalogs.com

DISCLAIMER

The official language chosen by the Product manufacturer is English. No liability is assumed as a result of translations in other languages not in compliance with the original meaning. In case of conflicting language versions of this document, the English original prevails. Dana shall not be liable for any misinterpretation of the content here into. Photos and illustrations might not represent the exact product.

© Copyright 2019 Dana Incorporated

All content is subject to copyright by Dana and may not be reproduced in whole or in part by any means, electronic or otherwise, without prior written approval.

THIS INFORMATION IS NOT INTENDED FOR SALE OR RESALE, AND THIS NOTICE MUST REMAIN ON ALL COPIES.

CONTENTS

INTRODUCTION	7
VERSION TRACKING	8
MANUAL APPLICABILITY AND SUPPORTED MODELS	8
SPECIFICATIONS	9
DEFINITION OF VIEWPOINTS	9
DATA PLATE	9
CONVERSION TABLES	10
TORQUE SPECIFICATIONS	11
COARSE PITCH	11
FINE PITCH	11
WHEEL NUT TIGHTENING TORQUES	12
MAINTENANCE	13
MAINTENANCE POINTS	13
MAINTENANCE POINTS (HEAVY DUTY)	14
OIL DRAINING MANDATORY PROCEDURE	15
CENTRAL HOUSING	15
PLANETARY GEAR REDUCTION	15
END-STOP PLIER SETTING	16
RETAINING SNAP RING FOR BORES	16
RETAINING SNAP RING FOR SHAFTS	16
MAINTENANCE INTERVALS	17
LUBRICANT & SEALANT SPECIFICATIONS	18
SAFETY PRECAUTIONS	19
TRUNNION	21
EXPLODED VIEW	21
DISASSEMBLY	21
ASSEMBLY	21
CHECKING WEAR AND REPLACING THE BRAKING DISCS	23
EXPLODED VIEW	23
DISASSEMBLY	24
ASSEMBLY	26
SPECIAL TOOLS	28
T1	28
T2	28
STEERING KNUCKLE ADJUSTMENT	29
EXPLODED VIEW	29
DISASSEMBLY	30
ASSEMBLY	31
(HEAVY DUTY) STEERING KNUCKLE ADJUSTMENT	33
EXPLODED VIEW	33
DISASSEMBLY	34
ASSEMBLY	36
DOUBLE U-JOINT	39
EXPLODED VIEW	39
DISASSEMBLY	40
ASSEMBLY	42
SPECIAL TOOLS	44
T1	44
T2	44

PLANETARY REDUCTION GEAR	45
EXPLODED VIEW	45
DISASSEMBLY	46
ASSEMBLY	50
SPECIAL TOOLS	54
T1	54
T2	54
T3	55
T4	56
T5	56
(HEAVY DUTY) PLANETARY REDUCTION GEAR	57
EXPLODED VIEW	57
DISASSEMBLY	58
ASSEMBLY	62
SPECIAL TOOLS	66
T1	66
T2	66
T3	67
T4	68
STEERING CYLINDER	69
EXPLODED VIEW	69
OPTICAL SENSOR AND MAGNETIC SENSOR	70
DISASSEMBLY	71
ASSEMBLY	74
ADJUSTING THE STEERING ANGLE	80
SPECIAL TOOLS	82
T1	82
T2	83
(HEAVY DUTY) STEERING CYLINDER	85
EXPLODED VIEW	85
DISASSEMBLY	86
ASSEMBLY	88
SPECIAL TOOLS	93
T1	93
T2	93
DIFFERENTIAL UNIT	95
EXPLODED VIEW	95
DISASSEMBLY	96
ASSEMBLY	98
HEAVY DUTY	101
SPECIAL TOOLS	102
T1	102
T2	102
T3	103

[Buy now](#)

[Manitou AXLE 212 Repair Manual PDF](#)

[With Instant Download](#)