

CONTENTS

PART 1 — TIRES

Introduction	1
Construction Of Tires	2
Ply Ratings	2
Codes for Tires	4
Tires Sizes	5
Directional Arrows On Tires	5
Inflation	6
Pressure Gauges	6
How To Inflate Tires	7
Ballast	7
Wheel Slip	9
Liquid Ballast	11
Dry Ballast	12
Dual Tires	13
Front Tractor Tires and Small Tires For Implements	15
Switching Tire Sizes and Types	15
Tire Failures	15
Tire Repairs	20
Storing and Handling Tires	23
Mounting and Demounting Tires	24-43
Changing Small Tires For Implements and Trucks	25-28
Changing Large Tires For Implements and Trucks	29-30
Changing Agricultural Traction Tires	31-34
Changing Large Tires For Off-The- Road, Industrial Equipment	36
Safety Tips For Large Off-The-Road, Industrial Equipment	44
Summary: Tires	45
Test Yourself	45

PART 2 — TRACKS

Introduction	47
Operation	48
Track Shoes	49
Track Chains	49
Track Rollers and Sprockets	50
Track Frame	50
Tips for Crawler Operators	51
Cleaning, Inspecting, and Lubricating Tracks ..	51
Adjusting Tracks	52
Track Tension	52
Track Alignment	54
Results Of Improper Track Adjustment	55
Diagnosis Of Track Wear	56
Drive Sprocket Wear	56
Pin and Bushing Wear	57
Roller Wear	58
Idler Wear	58
Measuring Track Wear	58
Repairing Tracks	61
Removing Tracks from Machine	62
Track Disassembly — Interlock Method	63
Track Assembly — Interlock Method	64
Track Disassembly — Flush-Type Method ...	65
Track Assembly — Flush-Type Method	66
Installing Tracks On Machine	66
Trouble Shooting Chart for Tracks	67
Test Yourself	68