3120 and 3140 Backhoes and 1000, 2000, 2001 and 3000 Loaders

Service Manual

GSS-1339

CASE IH AGRICULTURE

MidWestTech | Case 3120, 3140, 1000, 2000, 2001, 3000 Backhoe Loader Service Manual | Publication GSS-1339

Order the manual at mid-west-tech.com >

CONTENTS

Page

Introduction 4

Specifications

Backhoes 5
Loaders 10
Applicable to both Backhoes and Loaders 14
Directional Control Valves 14
Special Torques - all units 15

Principles of Operation

Pilot Operated Relief Valve 17
Swing Mechanism 18
Swing Cylinder Cushion Valves 19
Decelerator Valves 19
Drop Retarder Valve 21
Circuit Relief Valves 24
Anti-cavitation Valves 24
Swing Drain Line Check Valve 24
Circuit Diagrams 25

Trouble Shooting 31

Test Procedure

Field Checks 35
Loader 35
Backhoe 37
IH Flo-Rater Testing 40

Servicing Components

IH Control Valves 44
Loader Valve Bank Removal 44
Backhoe Valve Bank Removal 45
Disassembly 46
Inspection and Repair 49
Reassembly and Installation 50
Gresen Control Valves (used on 1000 Loader) 51
Cylinders 56
Swing Mechanism 61
Control Handles 67
Miscellaneous Structural Repair 69
Backhoe Flow Control Valves
Diverter Valve 70
Retarder Valve 70
Anti-cavitation Valve 71
Decelerator Valve 71
Swing Drain Check Valve 72

MidWestTech | Case 3120, 3140, 1000, 2000, 2001, 3000 Backhoe Loader Service Manual... Order the manual at mid-west-tech.com >