DX55
DX60

Tractors

SSS - PIN Number Z7NFP1001 and Above

EHSS - PIN Number Z7NFS1001 and Above

SERVICE MANUAL

84140461

CASE AGRICULTURE

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461

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

DX55

SSS - PIN Number Z7NFP1001 and Above
EHSS - PIN Number Z7NFS1001 and Above

DX60
REPAIR MANUAL
COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION 2
SECTION 10 - ENGINE 3
SECTION 18 - CLUTCH 12
SECTION 21 - TRANSMISSION 13
SECTION 23 - FWD DRIVELINE 21
SECTION 25 - FWD FRONT AXLE 22
SECTION 27 - DIFFERENTIAL, REAR AXLE 23
SECTION 31 - POWER TAKE-OFF (PTO) 25
SECTION 33 - BRAKES 26
SECTION 35 - HYDRAULIC SYSTEM 27
SECTION 41 - STEERING 31
SECTION 44 - WHEELS AND TIRES 33
SECTION 50 - CLIMATE CONTROL 34
SECTION 55 - ELECTRICAL SYSTEM 38
SECTION 90 - PLATFORM 56

The following pages are the collation of the contents pages from each section and chapter of the DX55, DX60 Repair manual. Complete Repair part # 84140461.

The sections used through out all Case IH product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the DX55, DX60 Tractors.

© 2008 CNH America LLC
Printed In U.S.A.

84140463 7/08
Replaces 87711142

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >

SECTION 00 - GENERAL INFORMATION

BOOK 1 - 87711137

Chapter 1 - General Information

CONTENTS

Section	Description	Page
	Precautionary Statements	3
	Personal Safety	3
	Machine Safety	3
	Information	3
	Safety	4
	Precautionary Statements	4
	The Tractor	4
	Servicing the Tractor	4
	Operating the Tractor	5
	Driving the Tractor	5
	Operating the PTO	6
	Diesel Fuel	6
	Safety Frame (ROPS)	6
	Safety Decals	7
	Instruction Decals	10
	Decal Placement Guide	13
	Ecology and the Environment	14
	Helpful Hints	14
	Universal Symbols	15
	General Information	16
	Minimum Hardware Tightening Torques	17
	Lubrication	19
	General Information	19
	Grease Fittings	19
	Recommended Lubricants	20
	Lubrication and Maintenance Chart DX55, DX60 — Front-wheel Drive	21
	Lubrication Fittings	22
	Diesel Fuel	22
	Fuel Usage Safety	22
	Specifications	23

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >

SECTION 00 - GENERAL INFORMATION

BOOK 1 - 87711137

Chapter 1 - General Information (Continued)

CONTENTS

Section	Description	Page
	General Dimensions	32
	Wheel Tread Settings	35
	Front Axle (FWD) (Not Adjustable)	35
	Rear Axle (FWD)	35
	Liquid Ballast (Optional)	38
	Tire Pressure	38
	Rear Tire Liquid	38
	Ballast Weights (Per Tire)	38

SECTION 10 – ENGINE

BOOK 1 - 87711137

Chapter 1 – Engine Components

CONTENTS

Section	Description	Page
	Specifications	6
	Metric Bolt Torque Specifications	11
	Special Tools	11
	Compression Test and Tools	12
	Description of Operation – General Information	13
	Troubleshooting	14
	Cylinder Head and Valve Train Components	18
	Cylinder Block Assembly	18
	Engine	19
	Removal	19
	Installation	20
	Overhaul	21
	Engine	21

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >

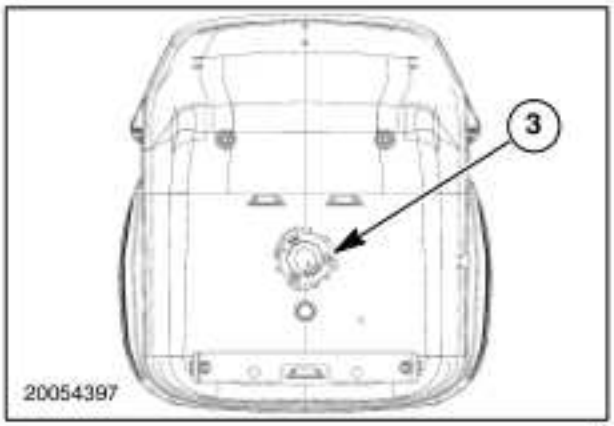
PISTON PIN BORE	N844L-T	N844L-T
Standard	27.996-28.0mm (1.102-1.1023 in)	27.996-28.0mm (1.102-1.1023 in)
Maximum	27.98 mm (1.102 in)	27.98 mm (1.102 in)
PISTON PIN CLEARANCE	N844L-T	N844L-T
Standard	-0.001 +0.007mm (-0.00004 +0.0003)	-0.001 +0.007mm (-0.00004 +0.0003)
Maximum	0.02 mm (0.0008 in)	0.02 mm (0.0008 in)
PISTON PIN	N844L-T	N844L-T
Diameter		
Standard	27.996-28.0 mm (1.1022-1.10236 in)	27.996-28.0 mm (1.1022-1.10236 in)
minimum	27.98 mm (1.1016 in)	27.98 mm (1.1016 in)
PIN TO BUSHING CLEARANCE		
Standard	0.01-0.025 mm (0.00039-0.00098 in)	0.01-0.025 mm (0.00039-0.00098 in)
Maximum	0.08mm (0.0031 in)	0.08mm (0.0031 in)
PISTON RING	N844L-T	N844L-T
END GAP		
1st Ring	0.2-0.35 mm (0.008-0.0138 in)	0.2-0.35 mm (0.008-0.0138 in)
Maximum	1.0 mm (0.039 in)	1.0 mm (0.039 in)
2nd Ring	0.20-0.40 mm (0.008-0.016 in)	0.20-0.40 mm (0.008-0.016 in)
Maximum	1.0 mm (0.039 in)	1.0 mm (0.039 in)
Oil Ring	0.20-0.80 mm (0.008-0.0315 in)	0.20-0.80 mm (0.008-0.0315 in)
Maximum	1.2 mm (0.047 in)	1.2 mm (0.047 in)
COMPRESSION RING TO GROOVE CLEARANCE		
Standard (1st Ring)	0.7-0.11 mm (0.027-0.004 in)	0.7-0.11 mm (0.027-0.004 in)
2nd Ring	0.04-0.08 mm (0.0016-0.0031 in)	0.04-0.08 mm (0.0016-0.0031 in)
Maximum	0.25 mm (0.010 in)	0.25 mm (0.010 in)
OIL RING TO GROOVE CLEARANCE		
Standard	0.03-0.13 mm (0.001-0.00512 in)	0.03-0.13 mm (0.001-0.00512 in)
Maximum	0.25 mm (0.010 in)	0.25 mm (0.010 in)
RING WIDTH		
1st compression ring	2.0 mm (0.079 in)	2.0 mm (0.079 in)
2nd compression ring	1.5 mm (0.059 in)	1.5 mm (0.059 in)
Oil compression ring	4.0 mm (0.157 in)	4.0 mm (0.157 in)
CONNECTING ROD	N844L-T	N844L-T
ROD TWIST		
Standard	0.08 mm (0.003 in)	0.08 mm (0.003 in)
Maximum	0.2 mm (0.008 in)	0.2 mm (0.008 in)
ROD BEND		
Standard	0.05 mm (0.002 in)	0.05 mm (0.002 in)
Maximum	0.15 mm (0.006 in)	0.15 mm (0.006 in)
ON CRANKSHAFT SIDE PLAY		
Standard	0.1-0.3 mm (0.004-0.012 in)	0.1-0.3 mm (0.004-0.012 in)
Maximum	0.7 mm (0.028 in)	0.7 mm (0.028 in)

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >

TROUBLESHOOTING LEFT TURN SIGNAL CIRCUIT		
PROBLEM	**POSSIBLE CAUSE**	**CORRECTION**
Inoperative turn signals.	Blown 10 or 20 amp fuse.	Inspect and replace fuse as necessary.
	Defective turn signal switch.	Test switch, replace as necessary.
	Malfunctioning flasher controller.	Test controller, replace as necessary.
	Loose rear tractor lights connector.	Check connector for proper connection.
	Improper ground circuit.	Check ground circuit connector for corrosion.

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >

12. Tilt the seat forward.
13. Connect the seat safety switch, 3, to the wire harness.
14. Connect the negative (-) battery cable from the negative (-) battery terminal.



33

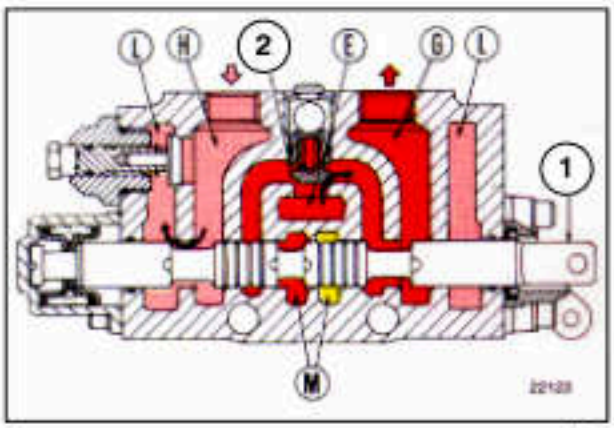
MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >

DOUBLE-ACTING, THREE POSITION, SINGLE SPOOL REAR REMOTE VALVE (W/O KICK-OUT OR FLOAT)

Lift

Movement of the control lever rearward transmits to the auxiliary control valve spool, 1, via mechanical linkage. The position of the spool allows oil from the upper chamber of the lift cylinder to enter port (H) and exhaust through port (L). The pressure in port (E) exits through port (G) by way of the check valve, 2, to the lower chamber of the lift cylinder.

Keeping the control lever pulled back extends the cylinder through a full stroke. On releasing the lever, the spool return spring automatically returns the spool to the neutral position, which allows all oil from the pump to flow through port (M) and on to the lift control valve.

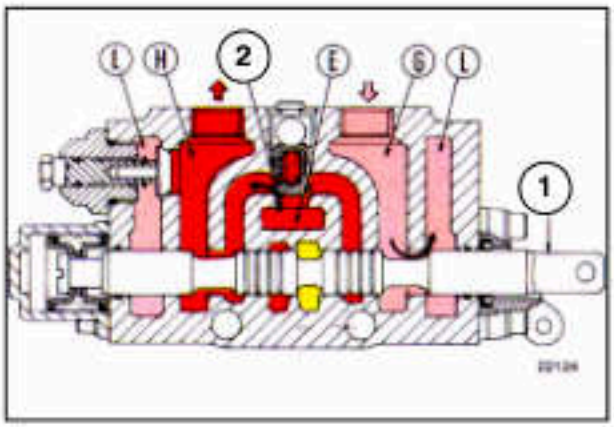


101

Lower

Movement of the control lever forward transmits to the auxiliary control valve spool, 1, via mechanical linkage. The position of the spool allows oil from the upper chamber of the lift cylinder to enter port (G) and exhaust through port (L). The pressure in port (E) exits through port (H) by way of the check valve, 2, to the upper chamber of the lift cylinder.

Keeping the control lever pushed forward retracts the cylinder through a full stroke. On releasing the lever, the spool return spring automatically returns the spool to the neutral position, which allows all oil from the pump to flow through port (M) and on to the lift control valve.



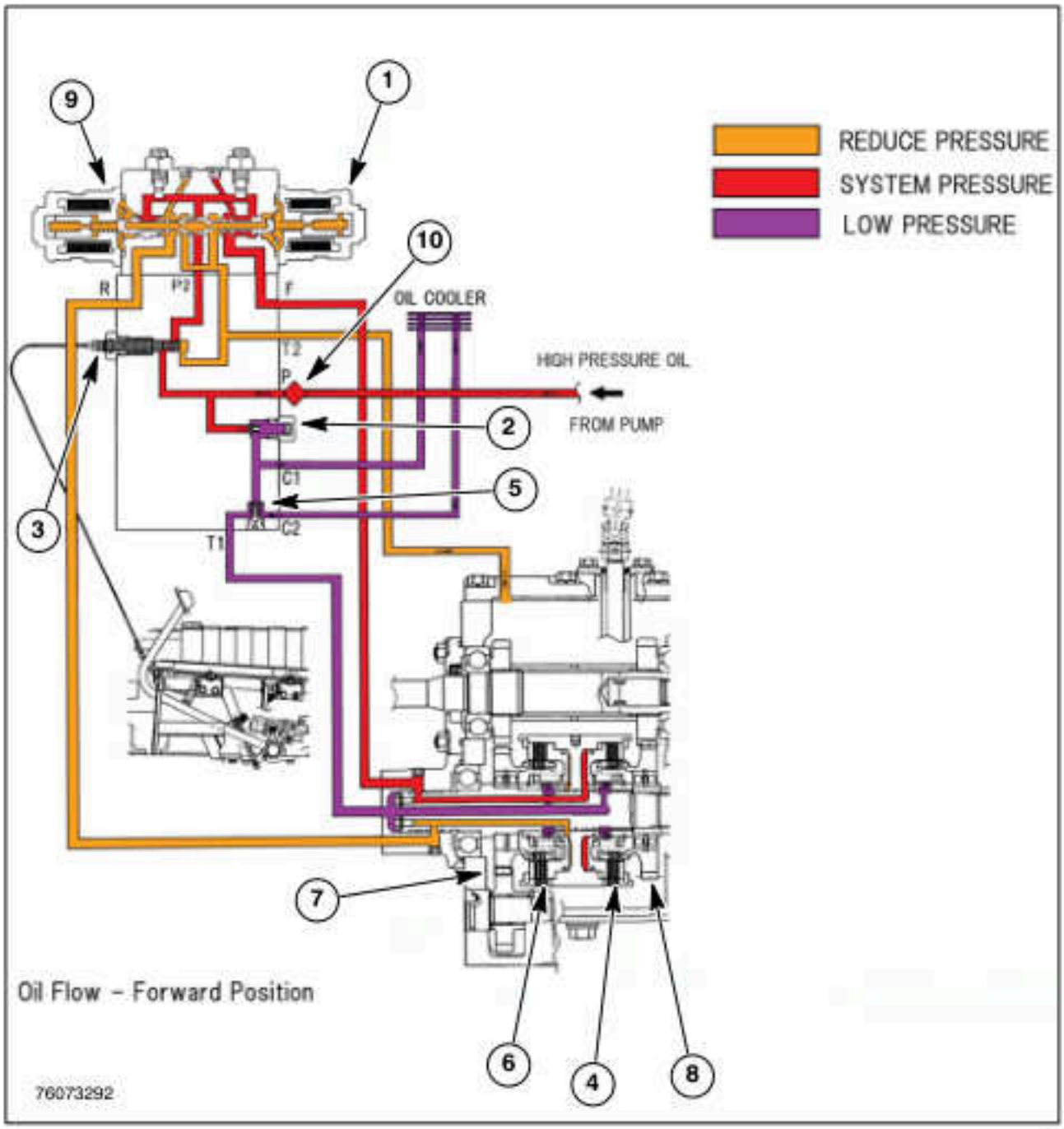
102

Pressurized oil

Oil in suction, delivery or exhaust

Static oil

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >



23

DX55 and DX60

Forward Position

1. Forward Solenoid
2. System Pressure Relief Valve
3. F/R Clutch Cutoff Valve
4. Forward Clutch Assembly
5. Check Valve
6. Reverse Clutch Assembly
7. Reverse Counter Gear
8. Forward Counter Gear
9. Reverse Solenoid
10. Oil Filter

MidWestTech | Case DX55, DX60 Tractor Service Manual | Publication 84140461 Order the manual at mid-west-tech.com >