

NEW HOLLAND
T1510
T1520

REPAIR MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

84260810

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T1510–T1520 SERVICE MANUAL COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION 2
SECTION 10 - ENGINE 3
SECTION 18 - CLUTCH 11
SECTION 21 - GEAR TRANSMISSION 13
SECTION 25 - FWD FRONT AXLE 15
SECTION 27 - DIFFERENTIAL, REAR AXLE 17
SECTION 29 - HYDROSTATIC TRANSMISSION 18
SECTION 31 - POWER TAKE-OFF SYSTEMS 20
SECTION 33 - BRAKES 22
SECTION 35 - HYDRAULIC SYSTEM 22
SECTION 41 - STEERING 26
SECTION 44 - WHEELS, TIRES AND 2WD AXLE 28
SECTION 55 - ELECTRICAL SYSTEM 29
SECTION 90 - PLATFORM 38

The following pages are the collation of the contents pages from each section and chapter of the T1510–T1520 Service manual. Complete Service part # 84260810.

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

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SECTION 00 - GENERAL INFORMATION

BOOK 1 - 84260811

Chapter 1 - General Information

CONTENTS

Section	Description	Page
	Introduction	2
	Precautionary Statements	3
	Personal Safety	3
	Machine Safety and 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
	International Symbols	8
	Specifications	9
	General Dimensions	15
	Minimum Hardware Tightening Torques	18
	Metric Bolt Torque Specifications	19
	Lubricants	20
	Recommended Lubricants and Coolants	20
	Adjustments	21
	Tire Inflation Pressure	21

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SECTION 10 - ENGINE

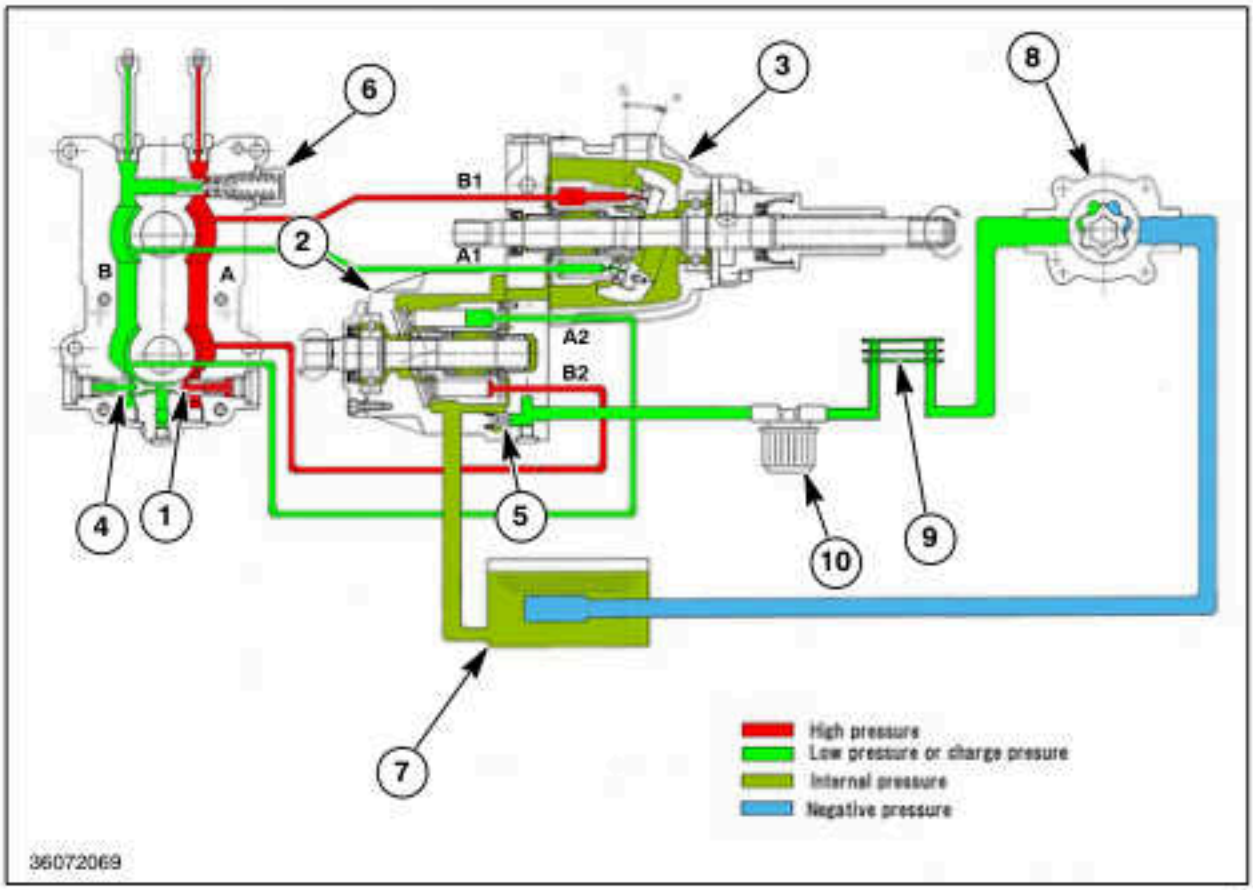
BOOK 1 - 84260811

Chapter 1 - Engine

CONTENTS

Section	Description	Page
	Specifications	6
	Metric Bolt Torque Specifications	13
	Engine Bolt Torque Specifications	14
	Engine Fuel System Bolt Torque Specifications	14
	Special Tools	15
	Compression Test and Tools	16
	Description of Operation – Engine	17
	Cylinder Head and Valve Train Components	18
	Cylinder Block Assembly	18
	Troubleshooting	20
	Overhaul – Engine	25
	Engine	25
	Preparation	25
	Fuel Injector and Glow Plug	26
	Removal	26
	Oil Pressure Switch	26
	Removal	26
	Temperature Sending Switch and Alternator	27
	Removal	27
	Fan, Water Pump, and External Oil Tube	27
	Removal	27
	Head Cover	27
	Removal	27
	Rocker Arm Shaft and Support Bracket	28
	Removal	28
	Cylinder Head	28
	Removal	28
	Valve Tappet	29
	Removal	29
	Fuel Shutoff Solenoid	29
	Removal	29
	Timing Gear Cover	29
	Removal	29

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9

FLUID FLOW FORWARD POSITION

1. Feed (Check) Valve "A"
2. Hydrostatic Motor
3. Hydrostatic Pump
4. Feed (Check) Valve "B"
5. Charge Pump Relief Valve
6. High Pressure Relief
7. Reservoir
8. Charge Pump
9. Cooler
10. Filter (HST)

Forward Position

When the foot pedal is shifted slightly forward, the pump swash plate is tilted at a slight angle and a small quantity of fluid is discharged from the piston pump into passage "A". This small quantity of fluid passes through the check valve, 1, and returns to the sump while causing a slight pressure increase in passage "A". When the foot pedal is depressed further forward, increased fluid flows from the piston pump, through passage "A". Pump pressure on the back of feed (check) valve, 1, closes the feed valve and pressure increases on the check valve. At a pressure above 3433 – 3723 kPa (498 – 540 psi), the check valve closes the return to sump and all fluid flow from pump passage "A" flows to the hydrostatic motor, 2, causing the motor to rotate. Fluid discharged from the hydrostatic motor at A2 into passage "B" flows back to the hydrostatic pump, 3, to complete the cycle. When fluid leakage in the system causes a drop in pressure on the suction passage "B" below 490 kPa (71 psi) pressure setting, feed (check) valve, 4, opens and provides make-up fluid from the charge pump. Excess fluid from the charge pump is returned to the sump via the charge pump relief valve, 5.

The high pressure relief valve, 6, protects the motor opening when pressure is above 27510 kPa (3990 psi).

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