

NEW HOLLAND

REPAIR MANUAL

L565
Lx565
Lx665

NEW HOLLAND

SERVICE

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SECTION 1

GENERAL INFORMATION

CONTENTS

INTRODUCTION 1-2
SAFETY INFORMATION
- Precautionary Statements 1-3
- Safety Precaution Information 1-4
- Safety Decals 1-8
- General Safety Information 1-12

HARDWARE TORQUE SPECIFICATIONS CHART 1-15
HYDRAULIC TUBE AND FITTING INSTALLATION 1-17
HYDRAULIC TUBE AND FITTING TORQUE SPECIFICATIONS ... 1-17
PROPERLY SUPPORTING A RAISED MACHINE 1-18
CAB AND BOOM TILT PROCEDURE 1-19
CRANING THE SKID-STEER LOADER 1-25
DRILLING HOLES IN OVERHEAD DASH 1-28
ADAPTING ATTACHMENTS REQUIRING 12V ELECTRICAL POWER 1-28
HYDRAULIC SYSTEM COMPATIBILITY 1-30
ACCESSORY RELAY AND ENGINE FUSE BLOCK 1-31
SPECIFICATIONS 1-32
INDEX 1-37

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SECTION 2
ENGINE

CONTENTS

GENERAL ENGINE INFORMATION 2-2
ENGINE MODEL AND SERIAL NUMBER LOCATION 2-4
SAFETY PRECAUTIONS 2-6
GENERAL ENGINE DATA 2-7
TROUBLESHOOTING 2-9
SPECIFICATIONS 2-16
TORQUE SPECIFICATIONS 2-20
ENGINE REMOVAL 2-22
ENGINE DISMANTLING SEQUENCE 2-28
DISASSEMBLY, INSPECTION, FITS, AND CLEARANCES OF COMPONENT ASSEMBLIES 2-36
REINSTALLATION OF ENGINE INTO LOADER FRAME 2-77
COOLING SYSTEM 2-80
FUEL SYSTEM 2-84
TURBOCHARGER 2-104
ELECTRICAL SYSTEMS - ALTERNATOR AND STARTER 2-119
STARTER MOTOR TROUBLESHOOTING 2-133
MAXIMUM CIRCUIT RESISTANCE 2-154
SPECIAL TOOLS 2-155
LABOR GUIDE 2-156
INDEX 2-161

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SECTION 3

ELECTRICAL SYSTEM

CONTENTS

GENERAL ELECTRICAL INFORMATION 3-2
SPECIFICATIONS 3-8
WIRING DIAGRAM 3-11
ADVANCED WARNING SYSTEM EARLY MODEL - SILVER FRAME 3-15
ADVANCED WARNING SYSTEM LATER MODEL - GOLD FRAME 3-55
ELECTRICAL CIRCUITS 3-90
REMOVAL, INSTALLATION, AND WIRING OF ELECTRICAL COMPONENTS 3-103
FUEL SYSTEM COMPONENTS 3-130
WIRE HARNESS 3-141
ELECTRICAL SYSTEMS - ALTERNATOR AND STARTER 3-150
MAXIMUM CIRCUIT RESISTANCE 3-185
LABOR GUIDE 3-186
INDEX 3-187

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TURBOCHARGER - LX665, N844T ENGINE

The LX665 skid-steer loader is equipped with the N844T turbocharged engine.

SPECIFICATIONS

ITEM	DESCRIPTION	SPECIFICATIONS
Turbocharger	Lubrication	Pressure-fed from external source
Turbine	Axial-flow turbine max. continuous permissible speed (RPM)	180000
Blower	Centrifugal blower dry weight lbs. (kg)	7.0 lbs. (3.2 kg)

TROUBLESHOOTING

TURBOCHARGER IS SLUGGISH IN PICKING UP SPEED

POSSIBLE CAUSE	CORRECTION
The sealed part of turbine wheel is heavily carboned, causing the rotor to offer much resistance to turning.	Change oil (engine oil) Disassemble and clean
Incomplete fuel combustion in the engine, due to a faulty condition in the fuel injection system.	Disassemble and clean Check the injection system for cause, and repair
Lack of lubrication during cold weather startup	Warm up below 1500 RPM for three minutes on startup and allow to run at low idle for one minute before shutdown

EXCESSIVE OR ABNORMAL VIBRATION

POSSIBLE CAUSE	CORRECTION
A loose pipe connection at the turbine or blower side or at the bearing	Tighten and repair
Bearing failure causing the rotor to run rough	Disassemble and repair
Turbine wheel or blower wheel has broken vanes caused by entry of metal or solid objects	Disassemble and repair damaged parts
Loss of dynamic balance in the rotor	Disassemble and repair damaged parts

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22. Disconnect the control valve connectors, remove the harness from the J clamp on the valve and pull the harness out through the left fender area.

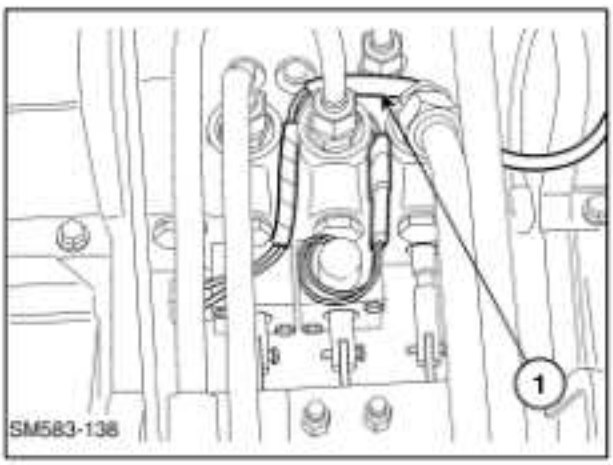


Figure 3-201

23. Now the right side panel, 1, can be pivoted into the center of the cab area at the rear and the wire harness can be removed from the corner of the side panel.

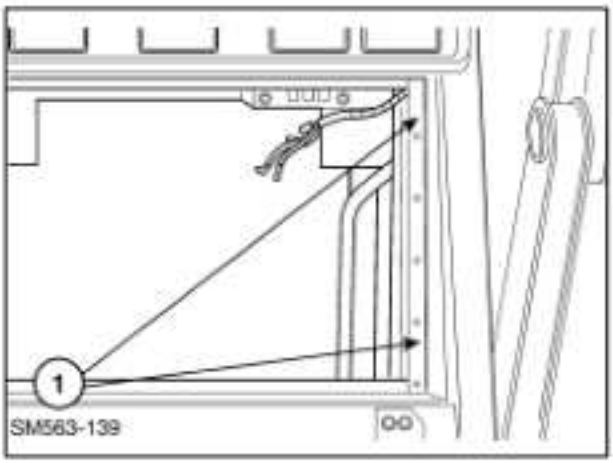


Figure 3-202

MAIN WIRE HARNESS INSTALLATION

1. Install the wire harness up the right rear corner of the side panel with the EIC board connector toward the front of the loader cab. Position the service/run and fuse block connectors at their location. Place the wire in the upper rear corner of the cab side panel at 1, to prevent the wire harness from contacting the cab panel retaining hardware. Install two wire ties or clamp at the upper right side of the rear window and one tie at the bottom to hold the harness up and maintain clearance from the cab panel hardware and headliner support.

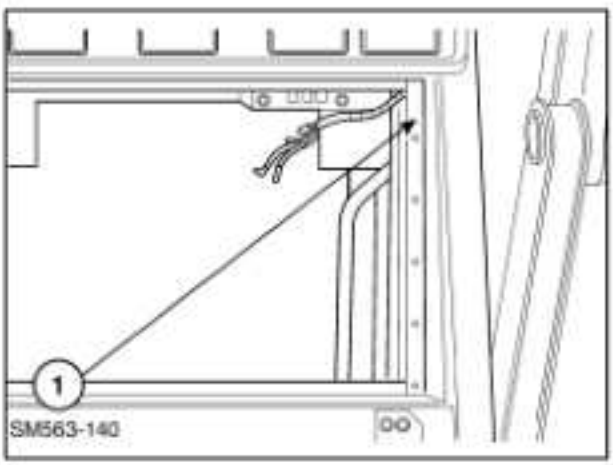


Figure 3-203

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PROBLEM	POSSIBLE CAUSES	CORRECTION
No increase in hydraulic oil flow when switch is in the "ON" position	No switch operation	Check power supply circuit
	No selector valve operation	Check power supply from switch
	Selector valve spool binding	Check for spool binding and repair
	Drive belt slipping or broken	Check drive belt adjustment or replace
Low hydraulic power	Low high flow relief valve pressure setting	Check and replace relief valve
	Low main system relief valve setting	Check and replace relief valve
	Leaking control valve plugs, leaking oil to return	Check O ring and backup washer on plugs
	Inefficient gear pump (main)	Check pump efficiency, repair or replace
	Inefficient gear pump (high flow)	Check pump efficiency, repair or replace

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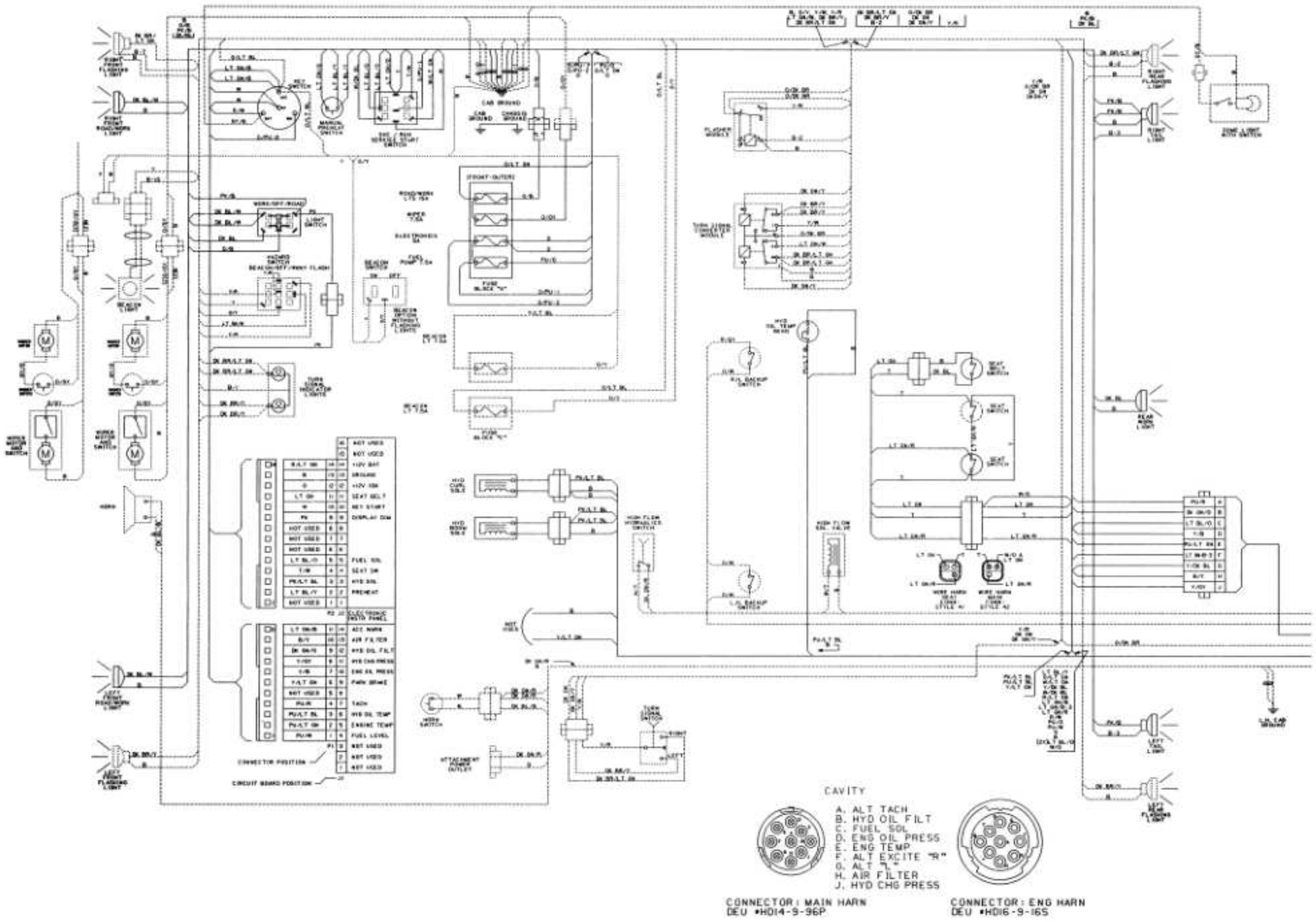
Section 8 - Optional Equipment

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