

NEW HOLLAND

REPAIR MANUAL

LM415A
LM425A
LM435A
LM445A
Telehandlers

NEW HOLLAND
AGRICULTURE

SERVICE

87751932

MidWestTech | New Holland LM415A, LM425A, LM435A, LM445A Telehandler Servic... Order the manual at mid-west-tech.com >

LM415A, LM425A, LM435A, LM445A REPAIR MANUAL COMPLETE CONTENTS

SECTION 00 - GENERAL 2
SECTION 10 - ENGINE 5
SECTION 21 - TRANSMISSION 7
SECTION 23 - DRIVE LINES 13
SECTION 25 - FRONT AXLE 13
SECTION 27 - REAR AXLE 15
SECTION 33 - BRAKES 16
SECTION 35 - HYDRAULIC SYSTEMS 17
SECTION 39 - CHASSIS 26
SECTION 41 - STEERING 27
SECTION 50 - CAB ENVIRONMENT 28
SECTION 55 - ELECTRICAL SYSTEM 31
SECTION 82 - LOADER 40
SECTION 90 - CAB 41

The following pages are the collation of the contents pages from each section and chapter of the LM415A, LM425A, LM435A, LM445A Repair manual. Complete Repair part # 87751932.

The sections used through out all New Holland 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 LM415A, LM425A, LM435A, LM445A Telehandlers.

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

87751937 7/08
Replaces 87048589

MidWestTech | New Holland LM415A, LM425A, LM435A, LM445A Telehandler Service Man... Order the manual at mid-west-tech.com >

SECTION 00 - GENERAL

BOOK 1 - 87751933

Chapter 1 - General

CONTENTS

Section	Description	Page
	General Instructions	3
	Important Notice	3
	Shimming	3
	Rotating Shaft Seals	3
	'O' Rings	3
	Sealers	3
	Bearings	3
	Spring Pins	3
	Notes For Spare Parts	4
	Notes For Equipment	4
	Notices	4
	How to Move the Vehicle with the Battery Removed	4
	Safety Rules	5
	To Prevent Accidents	5
	Safety Rules	5
	Generalities	5
	Start Up	7
	Engine	7
	Electrical Systems	7
	Hydraulic Systems	7
	Wheels and Tires	7
	Removal and Installation	7
	Product Identification	8
	Vehicle Product Identification Number	8
	Vehicle Identification Plate	8
	Engine Identification	8
	Front Axle Identification	9
	Transmission Identification 4x4 Power Shuttle	9
	Transmission Identification 4x3 Power Shift	9
	Rear Axle Identification	10
	Identification Plates in the Cab	10

MidWestTech | New Holland LM415A, LM425A, LM435A, LM445A Telehandler Service Man... Order the manual at mid-west-tech.com >

SECTION 00 - GENERAL

BOOK 1 - 87751933

Chapter 1 - General (Continued)

CONTENTS

Section	Description	Page
	Important Ecological Considerations	11
	Precautions	11
	Service Techniques	12
	General	12
	Hoses and Tubes	12
	'O' Ring Flat Face Seal Fittings	12
	Sealer Specifications	13
	Hardware Torque Values	13
	Minimum Hardware Tightening Torques	15

SECTION 00 - GENERAL

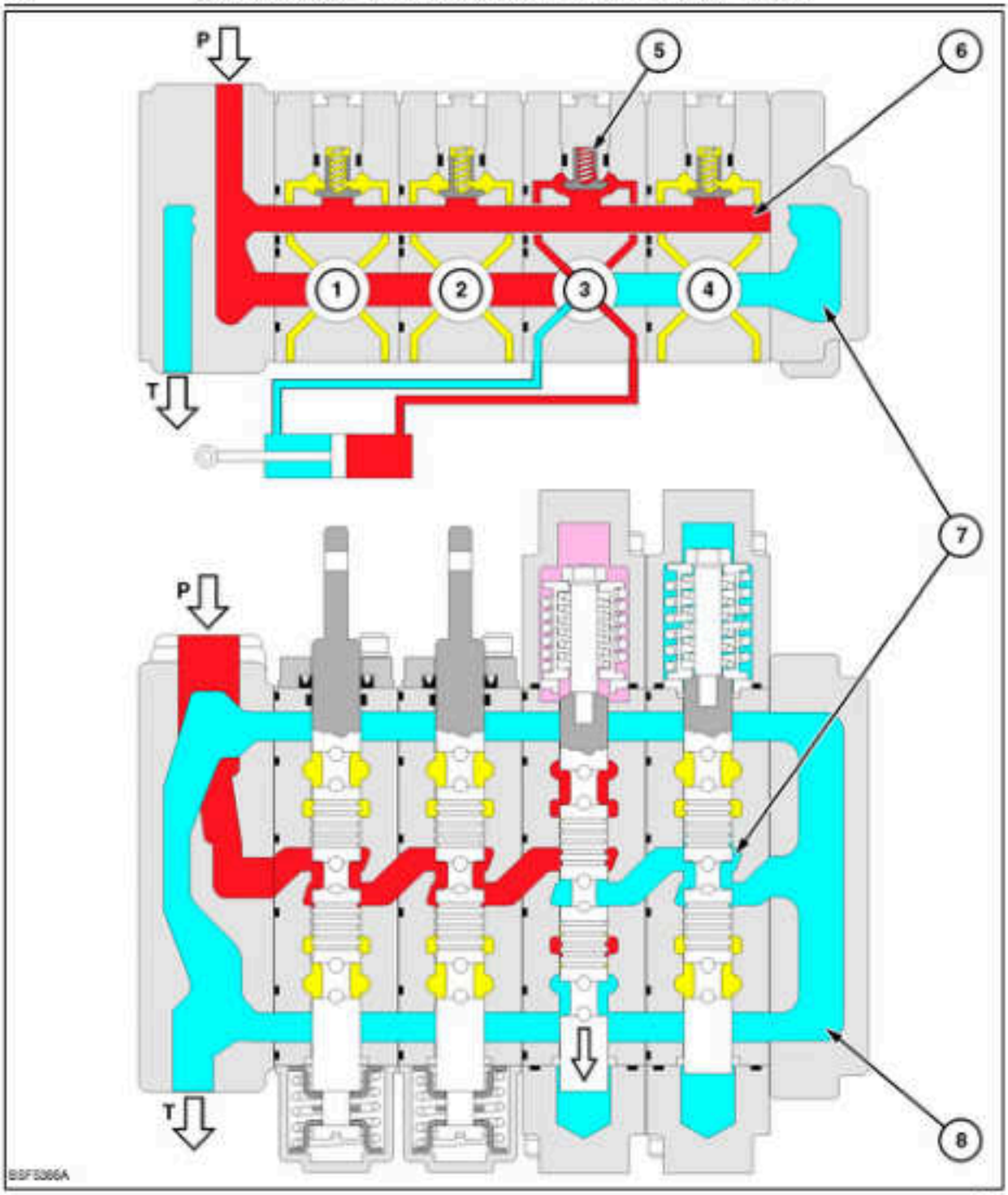
BOOK 1 - 87751933

Chapter 2 - Specifications, Data, and Tooling

CONTENTS

Section	Description	Page
	Specifications, Data, and Tooling	3
	Engine Data	3
	Cooling System	3
	Fuel System	3
	Transmission	4
	Power Shuttle	4
	Power Shift	4
	Electrical System	4
	Brakes	4
	Steering	4
	Front Axle	5
	Rear Axle	5

MidWestTech | New Holland LM415A, LM425A, LM435A, LM445A Telehandler Service Man... Order the manual at mid-west-tech.com >



Oil Flow through Control Valve Sections 37

Pump Pressure Oil

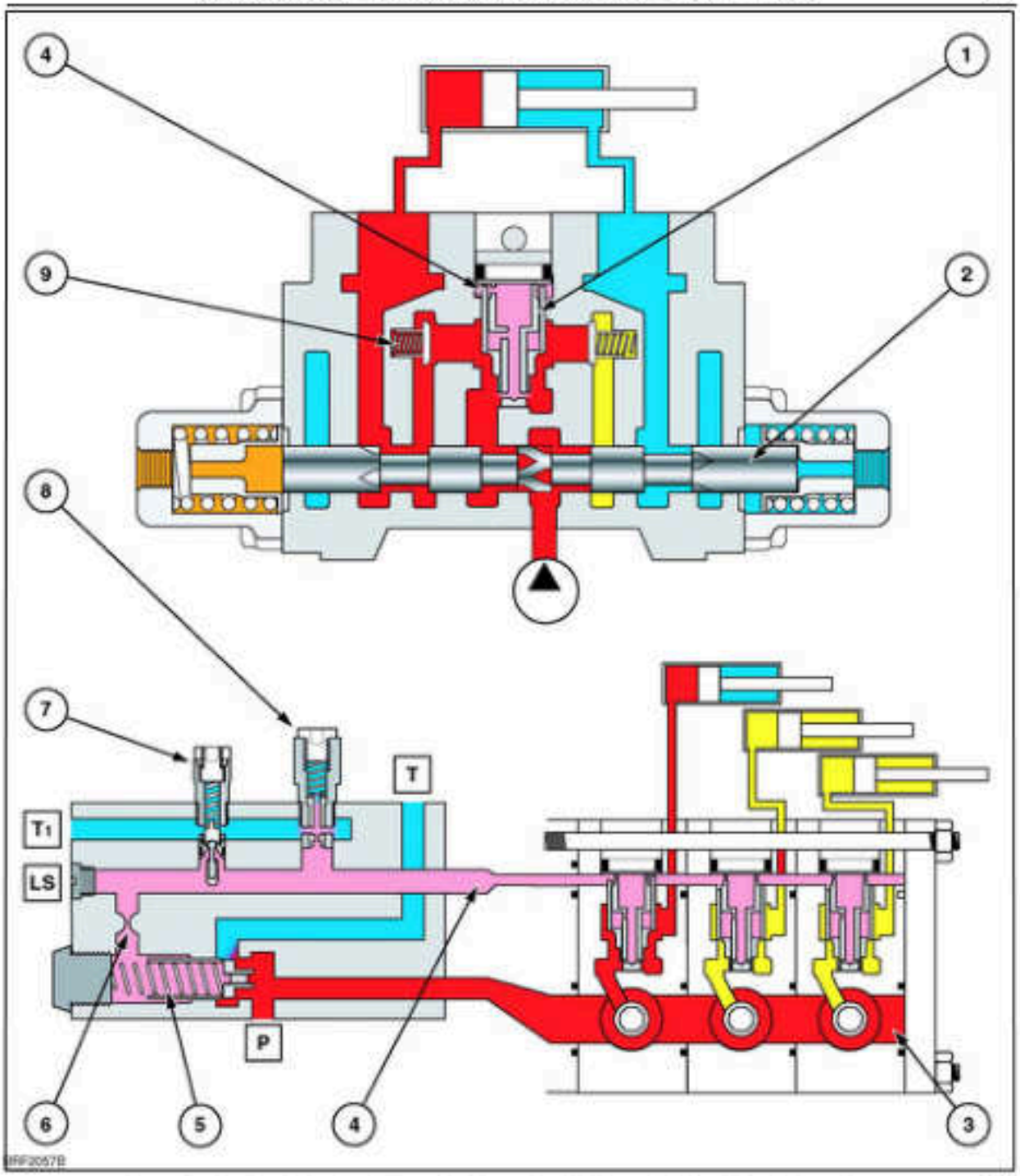
Spool Positioning Oil (Hydraulic controls only)

Trapped Oil

Return to Reservoir Oil

1. Lift Control Valve
2. Tilt Control Valve
3. Telescopic Control Valve
4. Auxiliary Control Valve
5. Check Valve
6. Parallel Gallery
7. Open Center Gallery
8. Return To Reservoir Gallery

MidWestTech | New Holland LM415A, LM425A, LM435A, LM445A Telehandler Service Man... Order the manual at mid-west-tech.com >



49

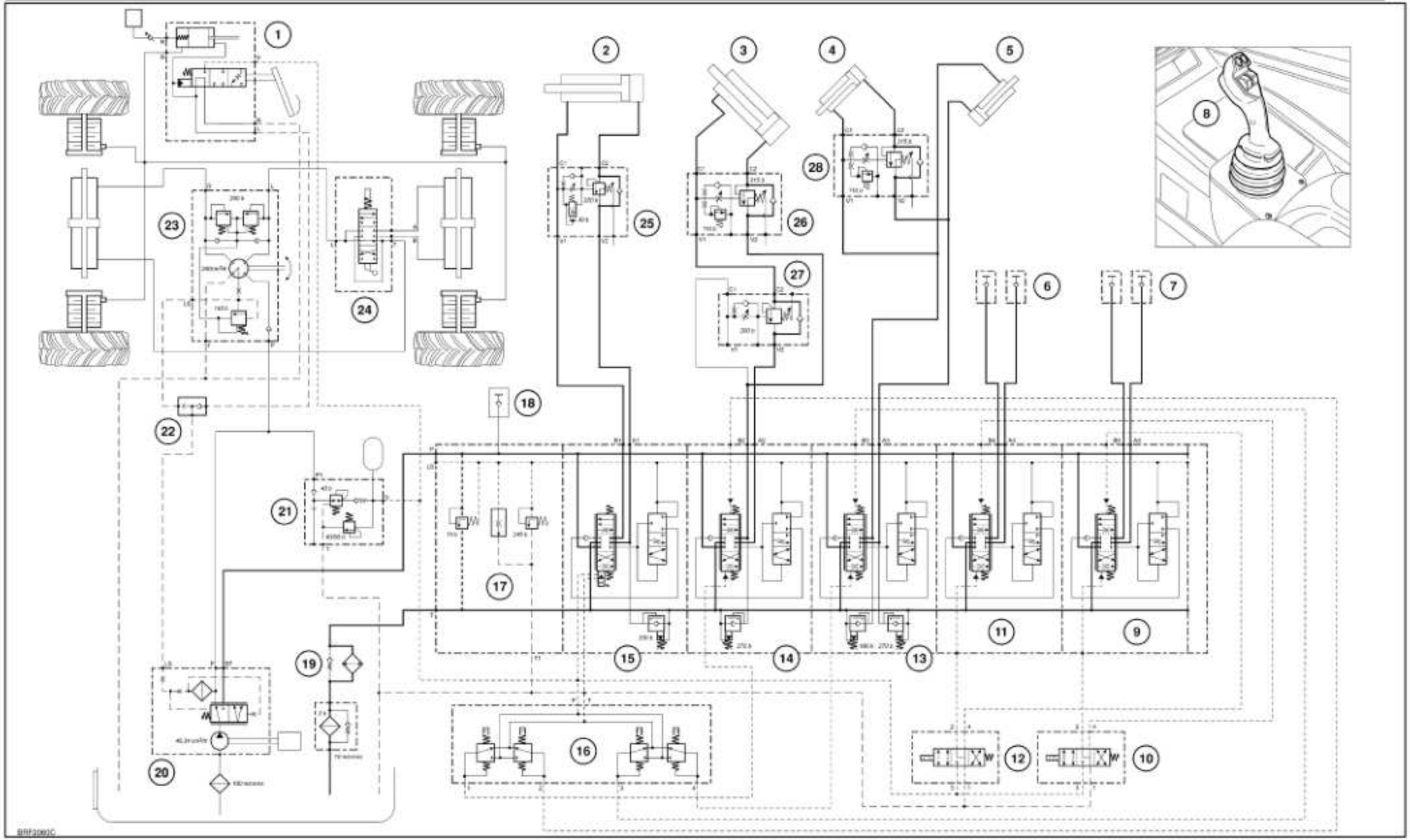
Flow Sharing Load Sensing System Schematic - Oil Flow with One Spool Operating

Pump Pressure Oil
Sensing Line Pressure Oil
Servo Pressure Oil
Trapped Oil
Reservoir Return Oil

1. Pressure Compensating Valve
2. Control Valve Spool
3. Closed Center Gallery
4. Load Sensing Line
5. Flow Balancing Valve & Spring
6. Orifice
7. Load Sensing Limiter (Relief Valve)
8. Load Sensing Bleed Orifice
9. Load Check Valve

P. Pump Pressure Port
LS. Load Sensing Port
T1. Load Sensing Reservoir Return Port
T. Main Reservoir Return

MidWestTech | New Holland LM415A, LM425A, LM435A, LM445A Telehandler Service Man... Order the manual at mid-west-tech.com >



17

Flow Sharing Hydraulic System Circuit Diagram

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