SEBM040800

Shop Manual

KOMATSU®

GALEO

D65WX-15E0

POWER ANGLE POWER TILT DOZER

SERIAL NUMBERS D65WX-15E0 69001 and up

This material is proprietary to Komatsu America Corp. and is not to be reproduced, used, or disclosed except in accordance with written authorization from Komatsu America Corp.

It is our policy to improve our products whenever it is possible and practical to do so. We reserve the right to make changes or improvements at any time without incurring any obligation to install such changes on products sold previously.

Due to this continuous program of research and development, revisions may be made to this publication. It is recommended that customers contact their distributor for information on the latest revision.

Copyright 2007 Komatsu
Printed in U.S.A.
Komatsu America Corp.

May 2007

MidWestTech | Komatsu Galeo D65WX-15E0 Power Angle Tilt Bulldozer Service Manual | Publication SEBM040800

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

CONTENTS

No. of page

General

Specification dimensions 2
Specifications 3
Weight table 8

Structure, Function and Maintenance Standard

Frame assembly 10
Track frame, recoil spring 12
Hydraulic cylinder ..... KA charge is contained
PPC valve 16
Control valve 22
Self pressure reducing valve 50
Work equipment ..... KA charge
Cutting edge, end bit ..... KA charge

Others

Hydraulic circuit diagram
Work equipment hydraulic circuit diagram (For PAT dozer) 57

MidWestTech | Komatsu Galeo D65WX-15E0 Power Angle Tilt Bulldozer Service Manu... Order the manual at mid-west-tech.com >

Machine name and type				D65WX-15E0 PAT dozer
Serial number				69001 and up
Hydraulic system	Hydraulic pump	HSS pump • Type • Theoretical capacity	cm³/rev	HPV95, variable-capacity piston, load sensing type 112
		Cooling fan pump • Type • Theoretical capacity	cm³/rev	LPV30, variable-capacity piston type 30
		Power train and lubricating oil pump • Type • Theoretical capacity	cm³/rev	SAL (2) 45 + 45, gear type (Tandem) 43.7 x 2
		Scavenging pump • Type • Theoretical capacity	cm³/rev	Gear type 61.2
	Hydraulic motor	HSS motor • Type • Motor capacity	cm³/rev	HMF95, fixed-capacity piston type with brake valve 96
		Cooling fan motor • Type • Motor capacity	cm³/rev	LMF28, fixed-capacity piston type 28
	Control valve	Type and quantity Control method		5-spool type, 1 piece (Ripper: Provision) Hydraulic assist type
	Hydraulic tank			Box type (External control valve type)
	Hydraulic oil filter			Return side of tank
	Oil cooler			Air-cooled type (3A-CS)

★PAT : Abbreviation for Power Angle power Tilt

MidWestTech | Komatsu Galeo D65WX-15E0 Power Angle Tilt Bulldozer Service Manu... Order the manual at mid-west-tech.com >

1. Suction valve
2. Preset check valve
3. LS bypass valve
4. Safety-suction valve

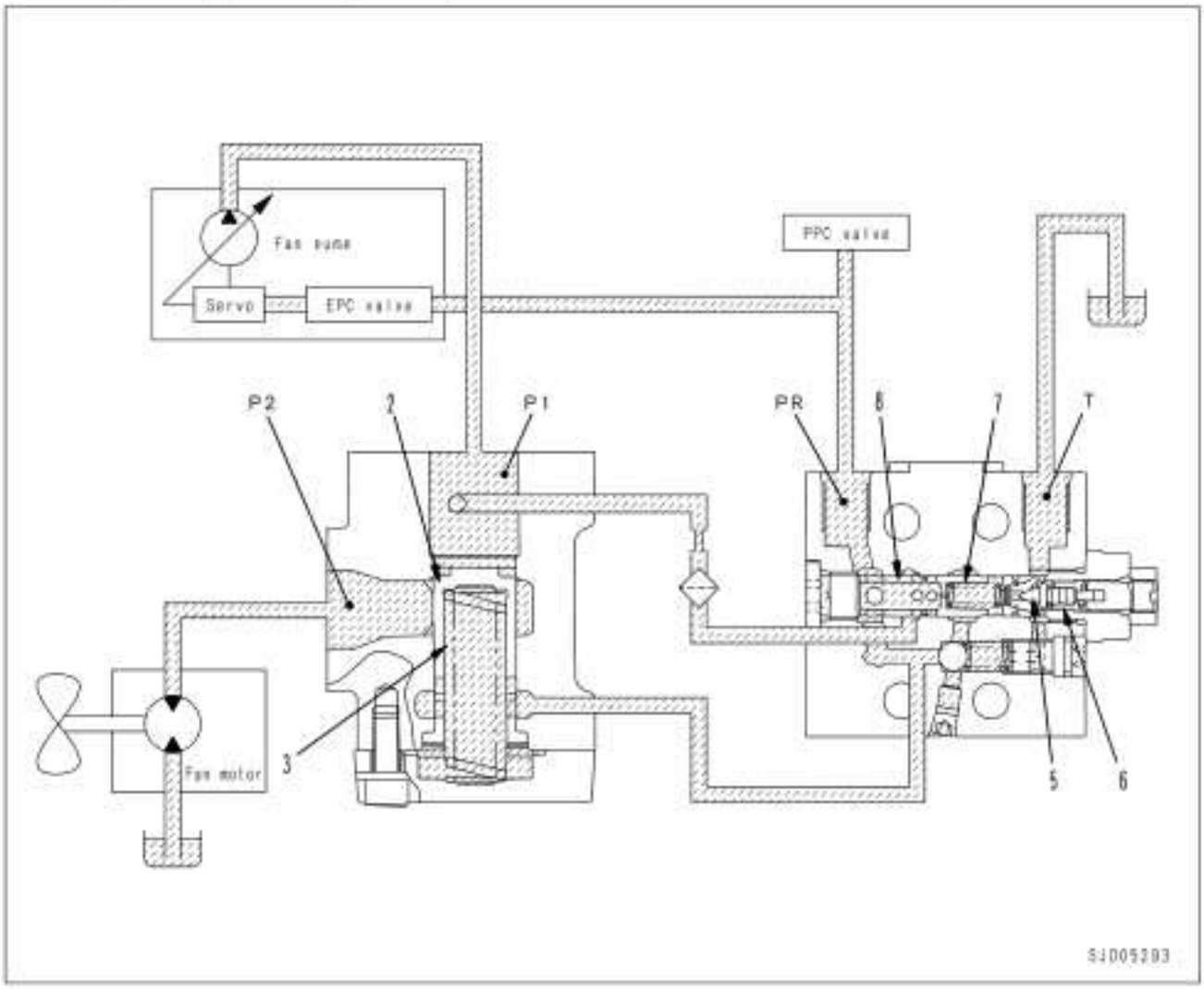
Unit: mm

No.	Check item	Criteria					Remedy
		Standard size			Repair limit		
5	Suction valve spring	Free length x Outside diameter	Installed length	Installed load	Free length	Installed load	If damaged or deformed, replace spring
		64.9 x 12.5	56.0	6.4 N {0.65 kg}	—	5.1 N {0.52 kg}	

MidWestTech | Komatsu Galeo D65WX-15E0 Power Angle Tilt Bulldozer Service Manu... Order the manual at mid-west-tech.com >

Operation

1. At engine stop (total low pressure)

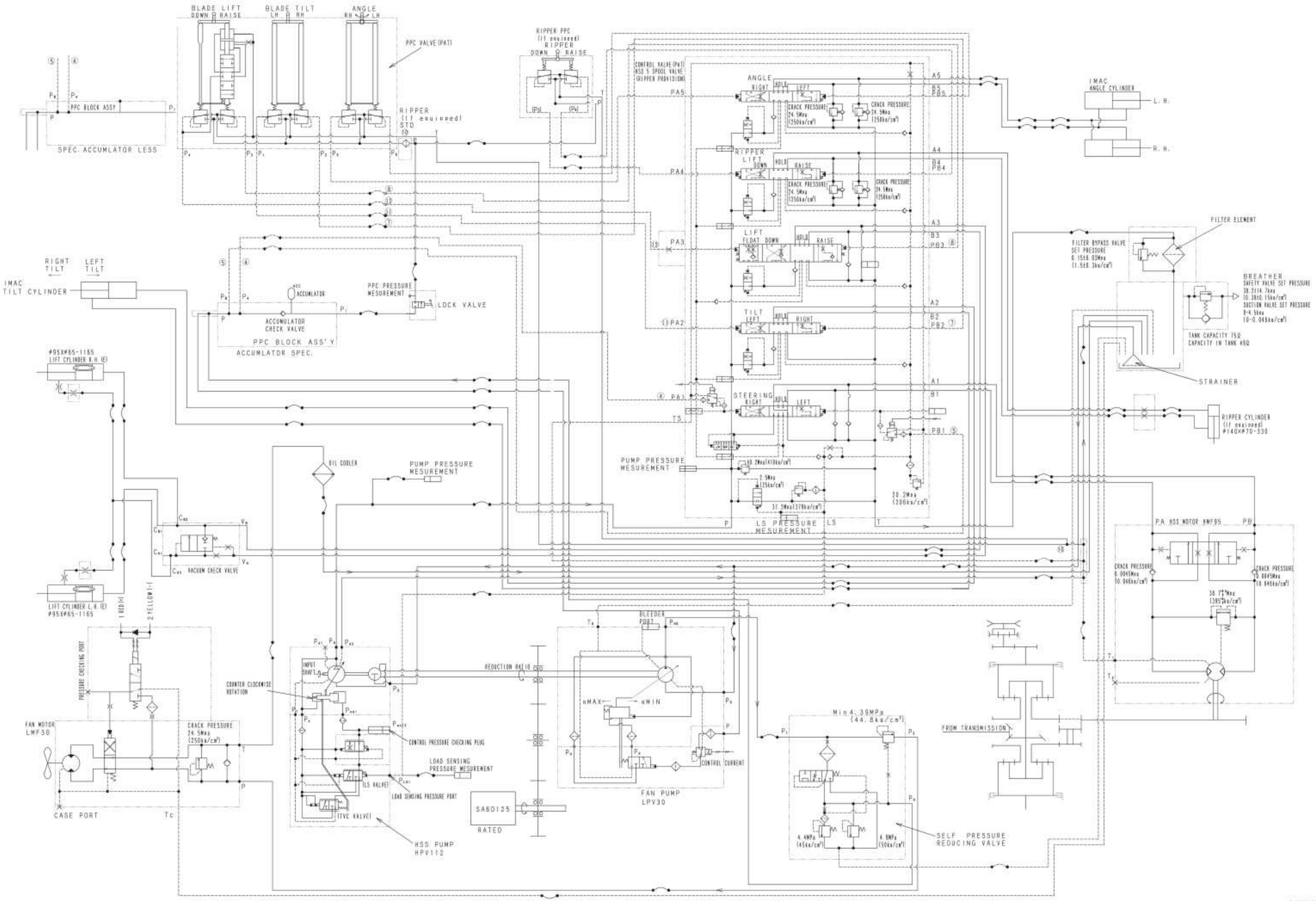


- The spring (6) pushes the poppet (5) the seat, and the circuit between the ports (PR) and (T) is closed.
- The spring (7) pushes the valve (8) to the left side, and the circuit between the ports (P1) and (PR) is open.
- The spring (3) pushes the valve (2) to the left side, and the circuit between the ports (P1) and (P2) is closed.

MidWestTech | Komatsu Galeo D65WX-15E0 Power Angle Tilt Bulldozer Service Manu...
Order the manual at mid-west-tech.com >

WORK EQUIPMENT HYDRAULIC CIRCUIT DIAGRAM

(For Power angle power tilt dozer)



MidWestTech | Komatsu Galeo D65WX-15E0 Power Angle Tilt Bulldozer Service Manual | Publication SEBM040800

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