SEBM01542110

SHOP MANUAL

KOMATSU®

D85A,E,P-21

MACHINE MODEL	SERIAL NUMBER
D85A-21	35001 and up
D85E-21	35001 and up
D85P-21	3001 and up

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require.
  Materials and specifications are subject to change without notice.

- D85A, E, P-21 mounts the S6D125-1 and S6D125-2 engine.
  For details of the engine, see the 6D125 Series and 125-2 Series Engine Shop Manual.

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09-95(02)00901

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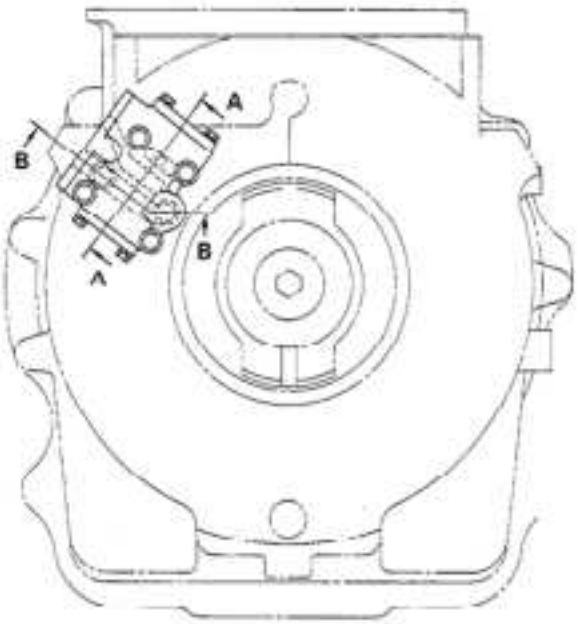
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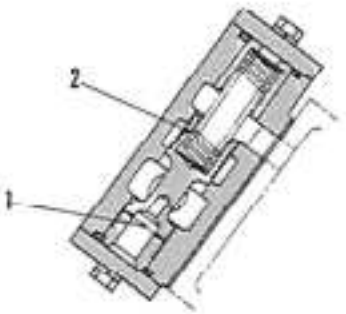
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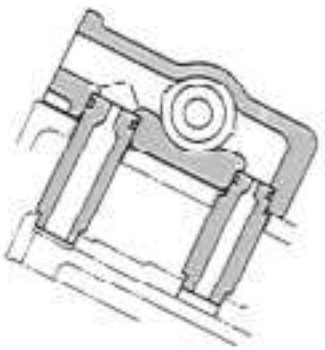
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D85P-21 Serial No. 3075 and up





Section A–A



Section B–B

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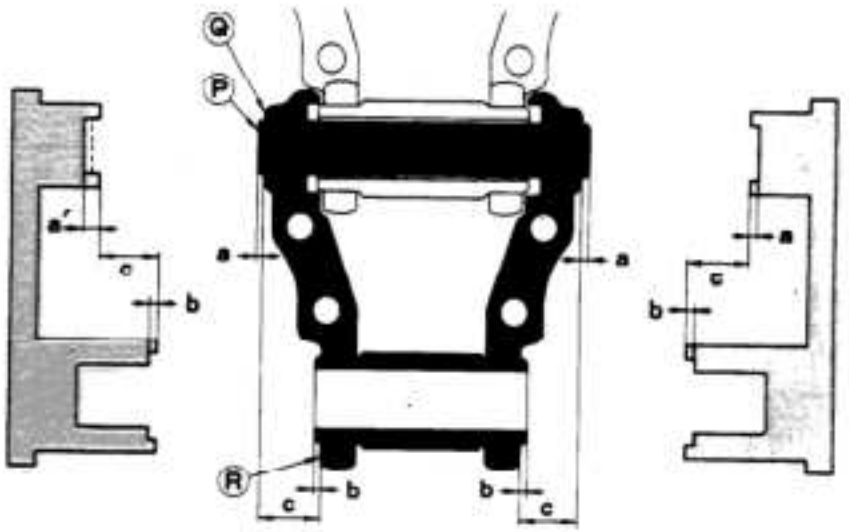
F154211138

Unit: mm

No.	Check item	Criteria					Remedy
1	Clearance between lubrication valve and valve body	Standard size	Tolerance		Standard clearance	Clearance limit	Replace
			Shaft	Hole			
		28	−0.035 −0.045	+0.013 +0	0.035 – 0.058	0.1	
2	Lubrication valve spring	Standard size			Repair limit		
		Free length	Installation length	Installation load	Free length	Installation load	
		87.0	64.0	6.7 kg	84.4	12.6 kg	

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PRESS FITTING JIG DIMENSION TABLE FOR LINK PRESS



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Unit: mm

Jig dimension		
a	b	c
5.4	2.75	44.6

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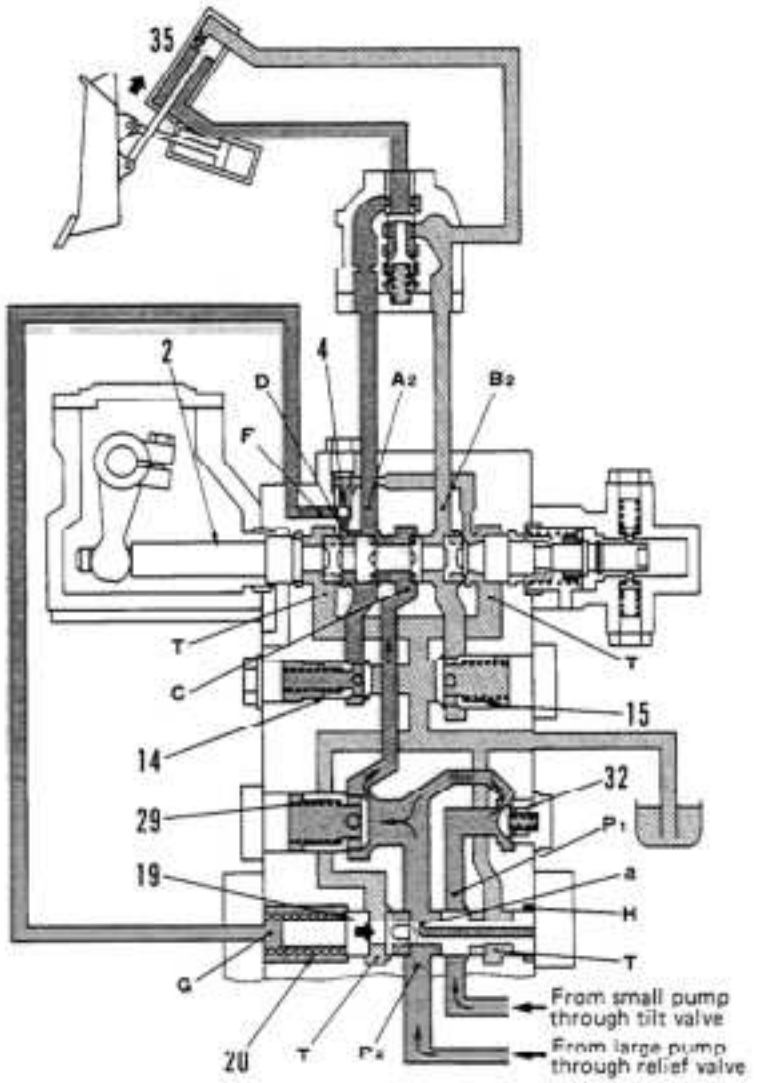
4. **Blade lever at RAISE position (at end of cylinder stroke)**

When cylinder (35) reaches the end of its stroke from the condition in Section 2 or Section 3, the hydraulic pressure in the whole circuit rises. Therefore, the pressure difference beyond chamber **C** and port A_2 is lost, and the surface pressure acting on the left and right of demand valve (19) becomes equal.

When this happens, the demand valve is moved to the right by the tension of spring (20), and closes the circuit to the hydraulic tank.

As a result, the oil flows from both the large and small pumps and pushes open the main relief valves assembled inside the blade tilt valve and ripper lift valve. The oil is then relieved to prevent the hydraulic pressure from rising any further.

The hydraulic pressure at this point is 195 kg/cm^2.



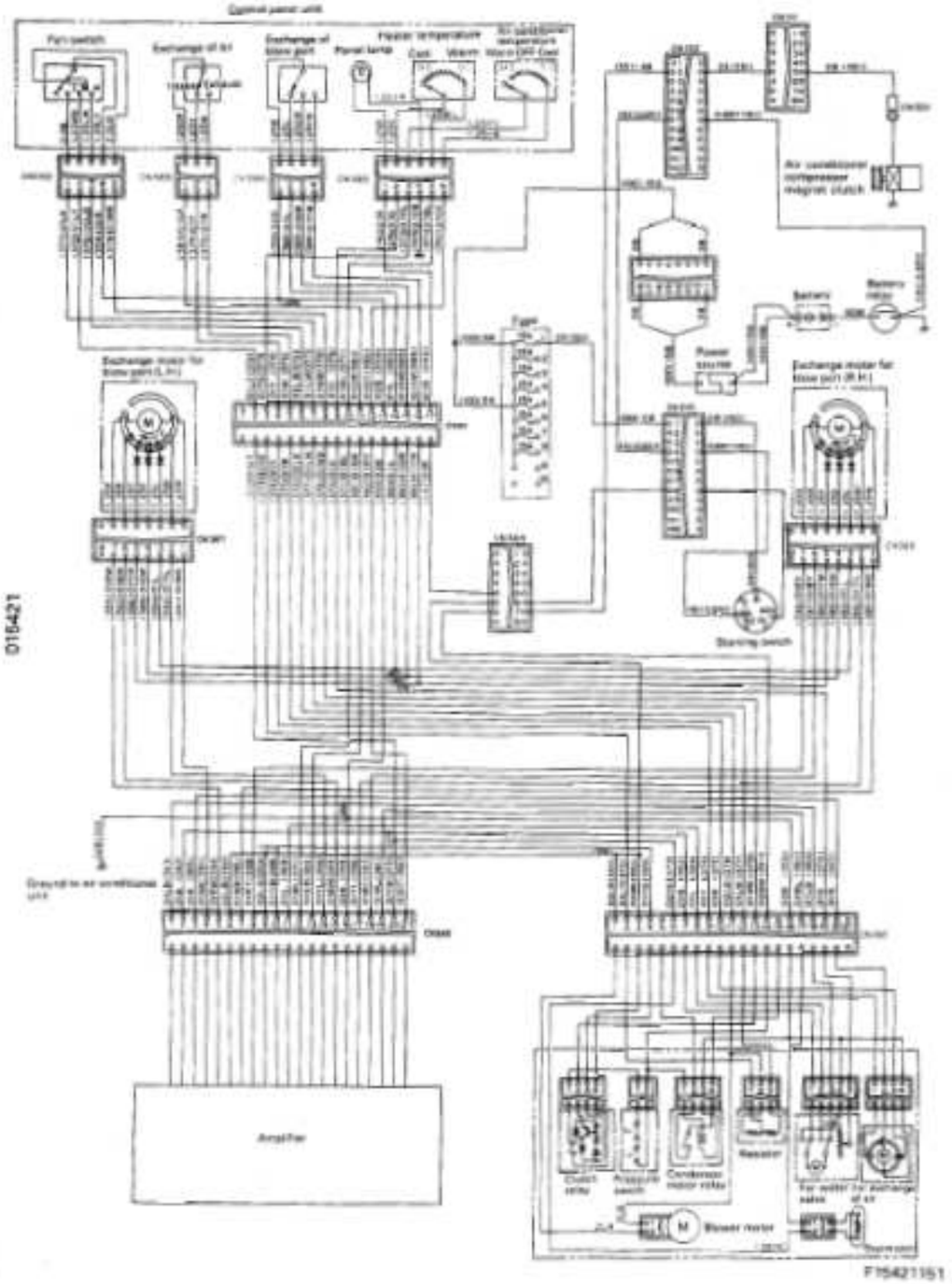
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AIR CONDITIONER ELECTRICAL CIRCUIT

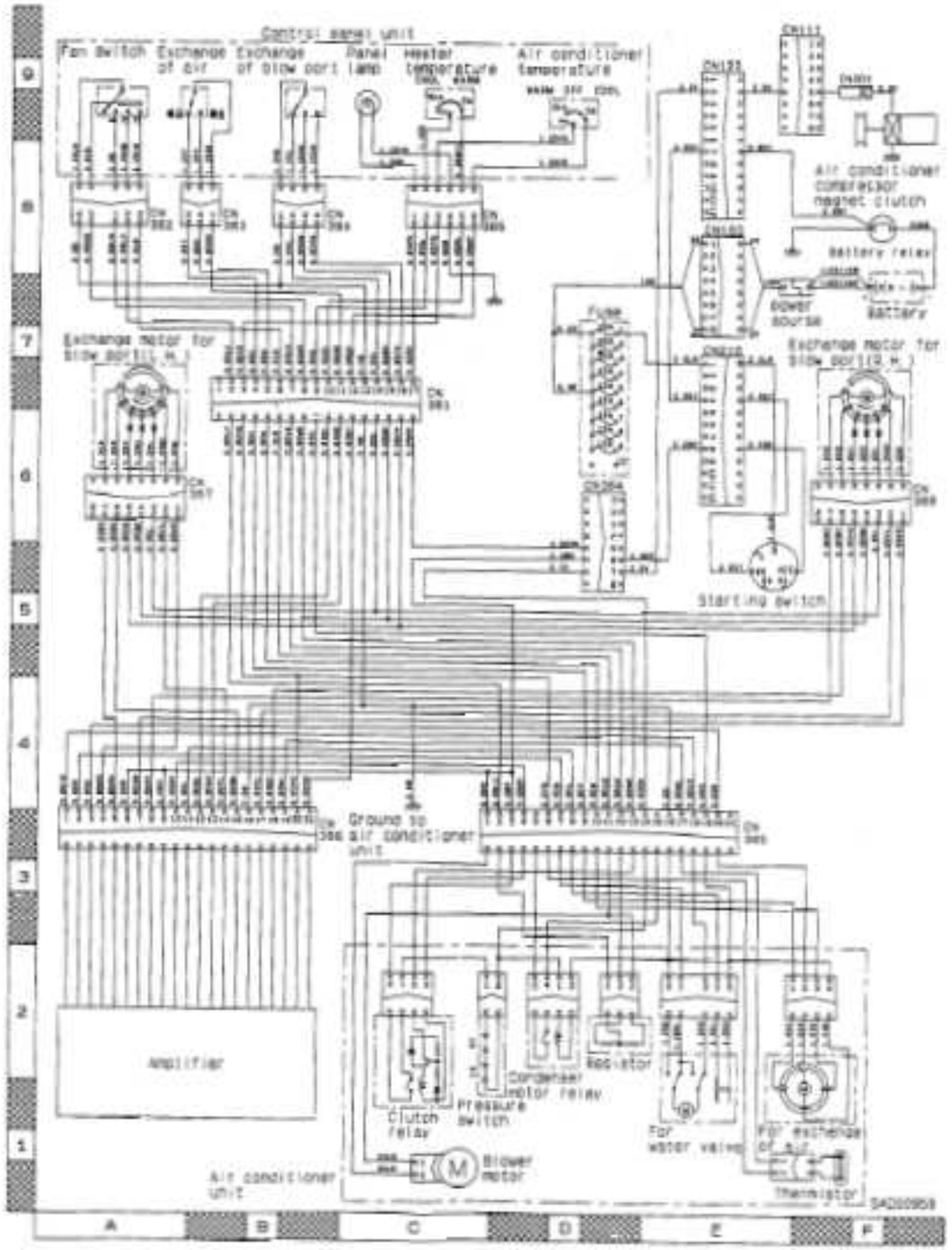
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