SEBM012604

SHOP MANUAL

KOMATSU®

PC30R-8
PC35R-8
PC40R-8
PC45R-8

MACHINE MODEL	SERIAL NUMBER
PC30R-8	**10001 and up**
PC35R-8	**35001 and up**
PC40R-8	**30001 and up**
PC45R-8	**5001 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.

- PC30R, 35R-8 mount the 3D84E-3F engine.
  PC40R, 45R-8 mount the 4D84E-3D engine.
  For details of the engine, see the 68E-88E Series Engine Shop Manual.

MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Service Manual | Publication SEBM012604
Order the manual at mid-west-tech.com >

CONTENTS

No. of page

01 GENERAL 01-1

10 STRUCTURE AND FUNCTION 10-1

20 TESTING AND ADJUSTING 20-1

30 DISASSEMBLY AND ASSEMBLY 30-1

40 MAINTENANCE STANDARD 40-1

90 OTHERS 90-1

MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Servi... Order the manual at mid-west-tech.com >

The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to the table below.

Mark	Indication	Action required
○	Page to be newly added	Add
●	Page to be replaced	Replace
( )	Page to be deleted	Discard

Pages having no marks are those previously revised or made additions.

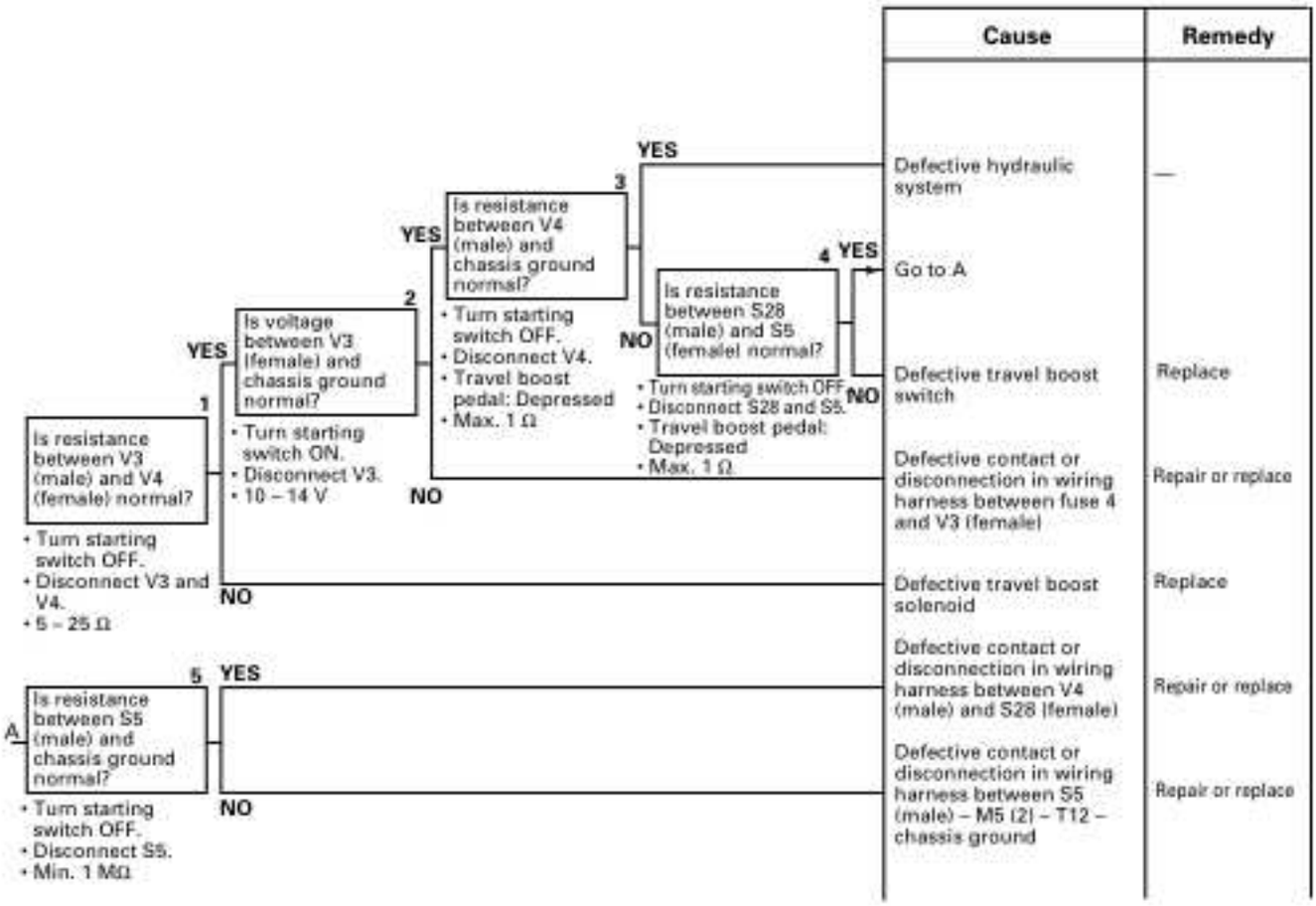
LIST OF REVISED PAGES

Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number	Mark	Page	Revision number
●	00-1	④		01-16	①		10-33	①		10-74	①		20-104	
	00-2	②		01-17	①		10-34	①		10-75	①		20-105	
●	00-2-1	④		01-18	①		10-35	①		10-77	①		20-106	
●	00-2-2	④		01-19	①		10-36	①		10-78	①		20-107	
○	00-2-3	④		01-20	①		10-37	①		10-79	①		20-108	
●	00-3			01-21	①		10-38	①		10-80	①		20-109	③
●	00-4			01-22	①		10-39	①		10-81	①		20-110	
●	00-5			01-23	①		10-40	①		10-82	①		20-111	
●	00-6						10-41	①		10-83	①		20-112	
●	00-7			10-1	①		10-42	①		10-84	①		20-113	
●	00-8			10-2	①		10-43	①		10-85	①		20-114	
●	00-9			10-3	①		10-44	①		10-86	①		20-115	
●	00-10			10-4	①		10-45	①		10-87	①		20-116	
●	00-11			10-5	①		10-46	①		10-88	①		20-117	
●	00-12			10-6	①		10-47	①		10-89	①		20-118	
●	00-13			10-7	①		10-48	①		10-90	①		20-119	
●	00-14			10-8	①		10-49	①					20-120	
●	00-15			10-9	①		10-50	①		20-1			20-121	③
●	00-16			10-10	①		10-51	①		20-2	③		20-121-1	③
●	00-17			10-11	①		10-52	①		20-3	③		20-122	
●	00-18			10-12	①		10-53	①		20-4			20-123	
●	00-19			10-13	①		10-54	①		20-5			20-124	
○	00-20			10-14	①		10-55	①		20-6			20-125	
○	00-21			10-15	①		10-56	①		20-7			20-126	
○	00-22			10-16	①		10-57	①		20-8			20-127	
				10-17	①		10-58	①		20-9			20-128	
	01-1	①		10-18	①		10-59	①		20-10			20-129	
	01-2	①		10-19	①		10-60	①		20-11			20-130	
	01-3	①		10-20	①		10-61	①		20-12	③		20-201	
	01-4	①		10-21	①		10-62	①		20-13	③		20-202	
	01-5	①		10-22	①		10-63	①		20-14			20-203	
	01-6	①		10-23	①		10-64	①		20-15			20-204	
	01-7	①		10-24	①		10-65	①		20-16			20-205	
	01-8	①		10-25	①		10-66	①		20-17			20-206	
	01-9	①		10-26	①		10-67	①		20-18			20-207	
	01-10	①		10-27	①		10-68	①		20-19			20-208	
	01-11	①		10-28	①		10-69	①		20-20			20-209	
	01-12	①		10-29	①		10-70	①		20-21			20-210	
	01-13	①		10-30	①		10-71	①		20-101			20-211	
	01-14	①		10-31	①		10-72	①		20-102			20-212	
	01-15	①		10-32	①		10-73	①		20-103			20-213	

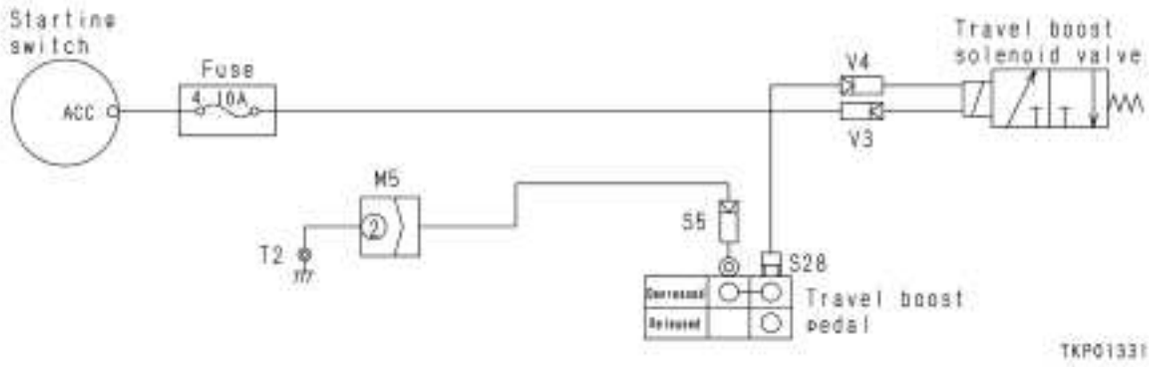
MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Servi... Order the manual at mid-west-tech.com >

E-5 Travel speed does not increase even when travel boost pedal is depressed

★ Check that fuse 4 is normal (if it is blown, check for a short circuit with the ground in the circuits related to fuse 4).
★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on the next step.



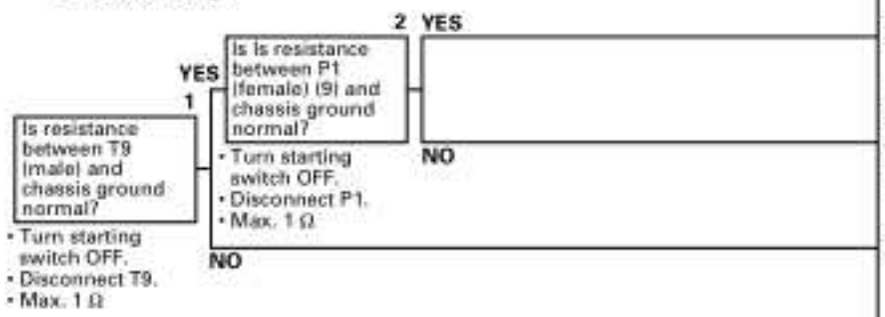
E-5 Related electric circuit diagram



MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Servi... Order the manual at mid-west-tech.com >

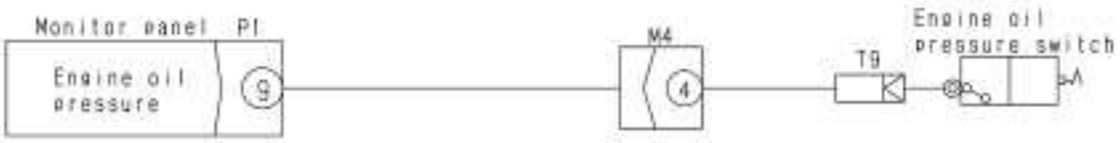
M-5 When starting switch is ON (engine stopped), engine oil pressure caution lamp does not light up

★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on the next step.



Cause	Remedy
Defective monitor panel	Replace
Defective contact or disconnection in wiring harness between P1 (female) (9) – M4 (4) – T9 (female)	Repair or replace
Defective engine oil pressure switch	Replace

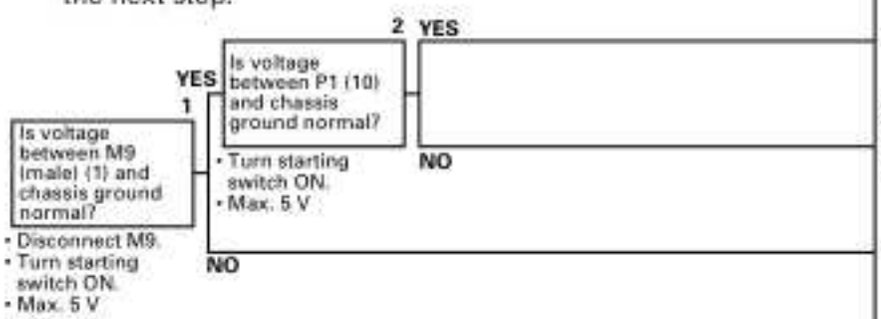
M-5 Related electrical circuit diagram



TKP01335

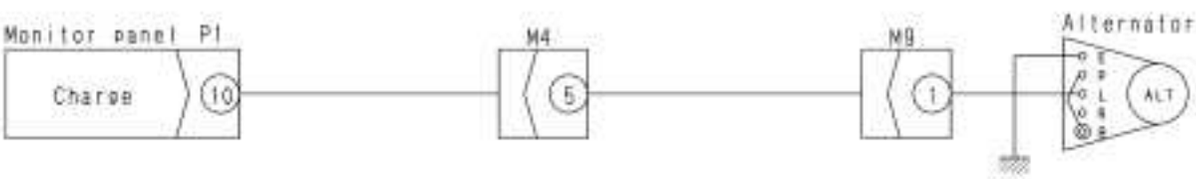
M-6 When starting switch is ON (engine stopped), charge caution lamp does not light up

★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on the next step.



Cause	Remedy
Defective monitor panel	Replace
Short circuit with power source in wiring harness between P1 (female) (10) – M4 (5) – M9 (female) (1)	Repair or replace
Defective alternator	Replace

M-6 Related electrical circuit diagram



TKP01336

MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Servi... Order the manual at mid-west-tech.com >

14) Obtain dimension "D" of hold flange (3).

15) Adjust hold flange (3) by the following methods, depending on the measurement in 12) - 14) above.
Dimension "C" is the standard dimension of the hold flange.

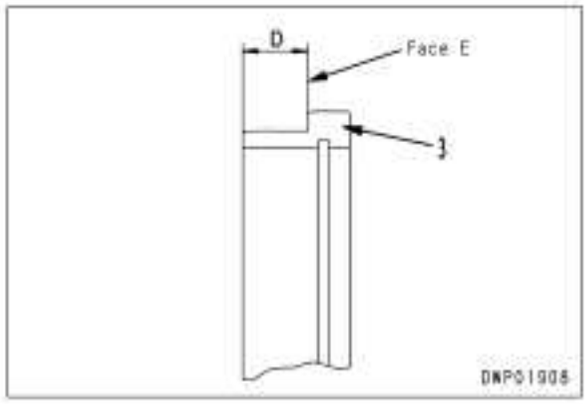
I) When the measured dimension of the hold flange (3) is larger than the standard dimension (C < D).
Cut face E of the hold flange (3) with a lathe, etc. to the standard dimension.

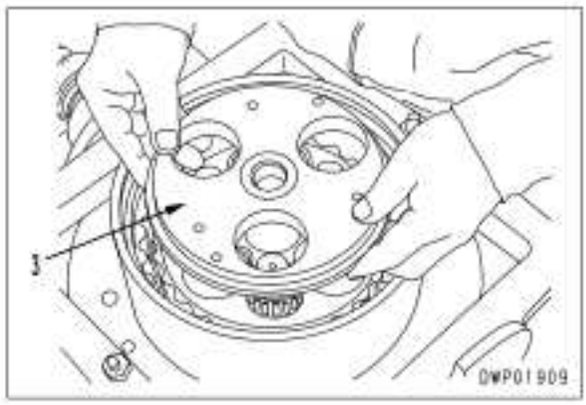
II) When the measured dimension of hold flange (3) is within the tolerance of the standard dimension (C = D).
Use the hold flange as it is.

III) When measured dimension of the hold flange (3) is less than the standard dimension (C > D).
Cut face F of the hold flange (3) with a lathe, etc. to the standard dimension.

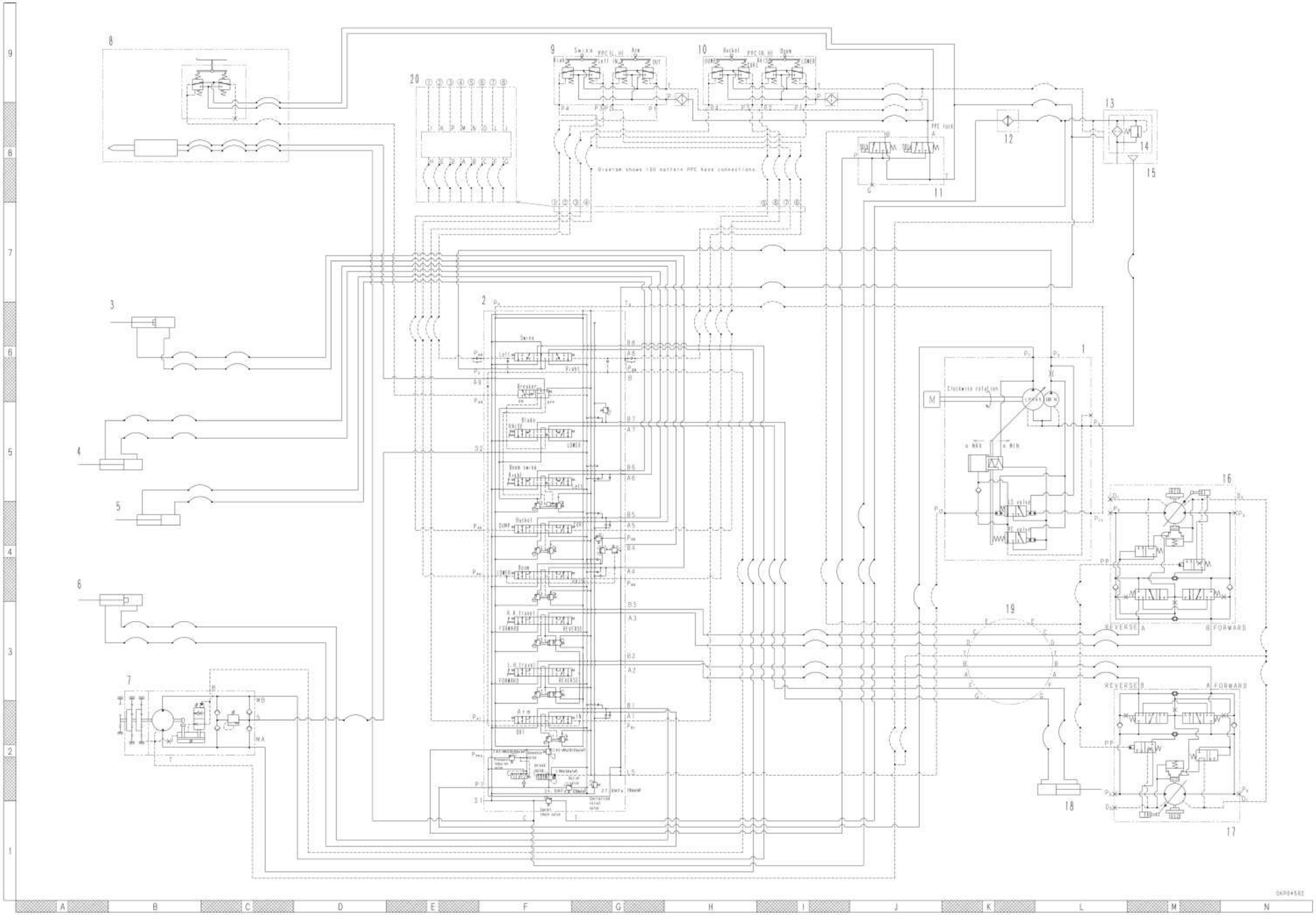
16) Remove the main bearing preload adjustment jig ⑥ from spindle (2).
After adjusting the hold flange according to above steps I), II), and III), disassemble it, referring to the section of disassembly of the temporary assembly, and then assemble permanently.

⚠ When the temporary assembly is disassembled, the outer race of the tapered roller bearing press fitted into the hole of the spindle and the inner race fitted to the hold flange do not need to be removed.





MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Servi... Order the manual at mid-west-tech.com >



MidWestTech | Komatsu PC30R-8, PC35R-8, PC40R-8, PC45R-8 Mini Excavator Service Manual | Publication SEBM012604
Order the manual at mid-west-tech.com >