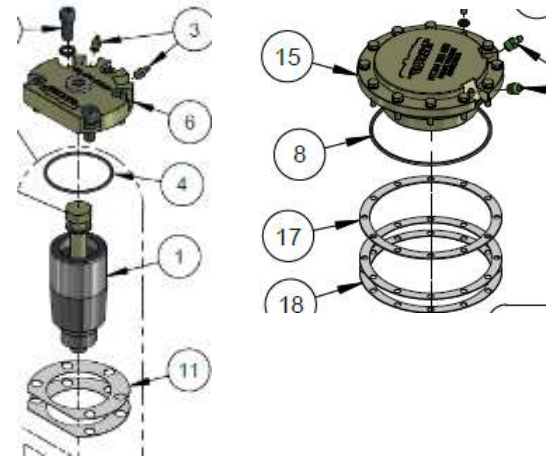


WORK INSTRUCTION

DOCUMENT	SB60 MIT DPU SHIMMING
MACHINE/ GROUP	SANDVIK SB60 / TB60
DOCUMENT AUTHOR	GAVIN CUNNINGHAM
DOCUMENT No.	MTU10168
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Background

The MIT Vertical Pin Bushing (13) and Cross Piece Bushings (20) have a shimming set, which when removed, incrementally pushes the bush toward the corresponding thrust face. This removes thrust clearance (end float).

With regular grease and intact X ring seals, most MIT DPU's run to full service life without need for shim removal/adjustment, however in some cases adjustment is required due to contaminants damaging the thrust surfaces. This document provides instruction on how to correctly adjust shims to remove end float.

ITEM	PART NUMBER	DESCRIPTION	QTY	COMMENTS	ITEM	PART NUMBER	DESCRIPTION	QTY	COMMENTS
1	MT207 066 080	MIT SHAFT - VERTICAL	1		31	MT204 352 180	PLANGE BEARING	2	
2	MT207 068 080	COVER PLATE	1	Includes Items 3, 4 & 5	32	MT204 380 085	COVER	1	Includes Items 6, 15, 34 & 35
3	MT207 100 420	DRIVE SHAFT	1	1/8 BSP	33	MT204 380 082	COVER	1	Includes Items 6, 15, 34 & 35
4	MT207 118 090	O-RING	2		34	MT207 011 420	HELPER W/ W/ - SPREADER	1	BT BANG
5	MT207 021 520	Socket Head Cap Screw	0	M12x30	35	MT204 080 090	ROCKET PULLER	1	1/8 BSP
6	MT207 068 085	COVER PLATE	1	Includes Items 3, 4 & 5	36	MT207 148 020	MIT JACKING BELT REVERSAL KIT	1	Includes BMS 29, BMS30 & BMS31 LARS
7	MT207 068 090	COVER PLATE	1	Includes Items 3, 4 & 5	37	MT207 020 010	HORIZONTAL SHAFT INSTALL TOOL	1	Included with DPU complete
8	MT207 068 090	O-RING	0		38	MT204 380 080	CROSS PIECE BUSHING TOOL	1	
9	MT207 068 090	Socket Head Cap Screw	0	M12x30	39	MT204 330 1800	HORIZONTAL PIVOT BUSH TOOL	0	
10	MT207 068 090	SHIM - 0.3mm	1						
11	MT207 068 090	SHIM - 0.3mm	2						
12	MT207 068 090	SHIM - 0.3mm	3						
13	MT204 332 080	PIVOT BUSHING	2						
14	MT204 334 480	SHIMMING	4						
15	MT204 380 080	COVER	1	Includes Items 3, 6 & 18					
16	MT204 380 080	COVER	1	M12x30					
17	MT204 380 080	SHIM - 0.3mm	1						
18	MT204 380 080	SHIM - 0.3mm	2						
19	MT204 380 080	SHIM - 0.3mm	3						
20	MT204 380 080	SHIM - 0.3mm	4						
21	MT204 380 080	SHIM - 0.3mm	5						
22	MT204 380 080	SHIM - 0.3mm	6						
23	MT204 380 080	SHIM - 0.3mm	7						
24	MT204 380 080	SHIM - 0.3mm	8						
25	MT204 380 080	SHIM - 0.3mm	9						
26	MT204 380 080	SHIM - 0.3mm	10						
27	MT204 380 080	SHIM - 0.3mm	11						
28	MT204 380 080	SHIM - 0.3mm	12						
29	MT204 380 080	SHIM - 0.3mm	13						
30	MT204 380 080	SHIM - 0.3mm	14						

*** LUBRICATE BOLT & WASHER BEFORE TORQUING. TAPING TO BE CLEAN & FREE FROM OIL & GREASE.

MT551 567 73 SB60 DPU MIT - RH
 MT551 567 732 SB60 DPU MIT - RH inc. HORIZONTAL PIVOT ASSEMBLY

MT Parts 0407 059 610
 1171 Regal Road, Roseworthy S.A. 5135
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 www.maintenance-technique.com

Recommended Procedure

It is important to remove only remove shims that equal the amount of end float measured, as removing more progressively spreads the clevises out of parallel causing additional load/wear to the pin and bushing.

End float (Thrust Clearance) specification is 0.0mm to 0.1mm. Shimming is recommended when end float is greater than 0.5mm to prevent excessive boom slop and accelerated wear due to dirt ingress into the thrust surfaces.

Step 1. – Remove the end cap items 2 or 6 in *Image 1* (Swing Link Adjustment) or item 15 in *Image 2* (Vertical Pin Adjustment).

Step 2. – Using a dial indicator or verniers, measure the distance from the top of the bronze bush to the pin top (Measurement A).

Step 3. – Use the feed or mechanical assistance to push the Cross piece (21) or Swing piece (23) upward.

Step 4. – Measure the pin height again (Measurement B). Subtract B from A to find the end float present (End Float Measurement C). Remove shims required to return the end float to within tolerance (**0.0mm to 0.1mm**).

Refit the cap and visually check the end float.

Check that the X Rings and grease nipples are in good condition.

Shims Thicknesses

- 11 = 0.6mm
- 12 = 0.2mm
- 17 = 1.2mm
- 18 = 0.6mm

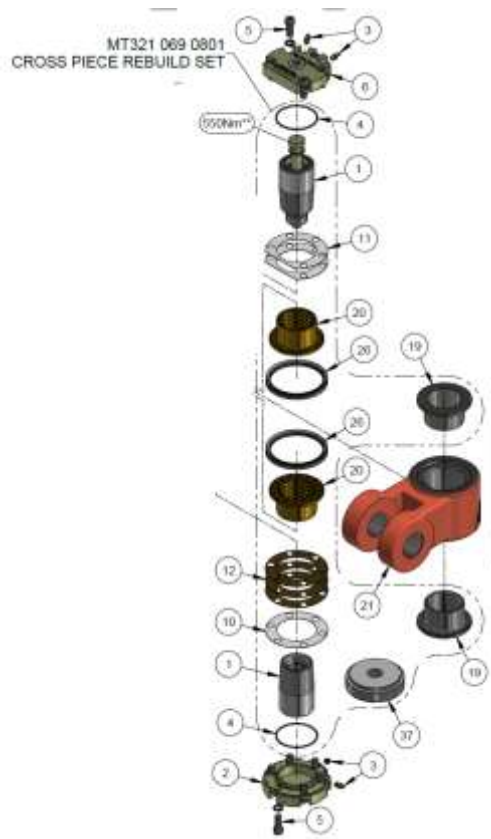


Image 1.



Image 2.