

Title:	Shovel Potentiometer Intermediate Bdf Adjustment			ID:
				0194
Date in:	Response:	Model:	Author:	
2006-04-03	2006-04-03	-	CMA	

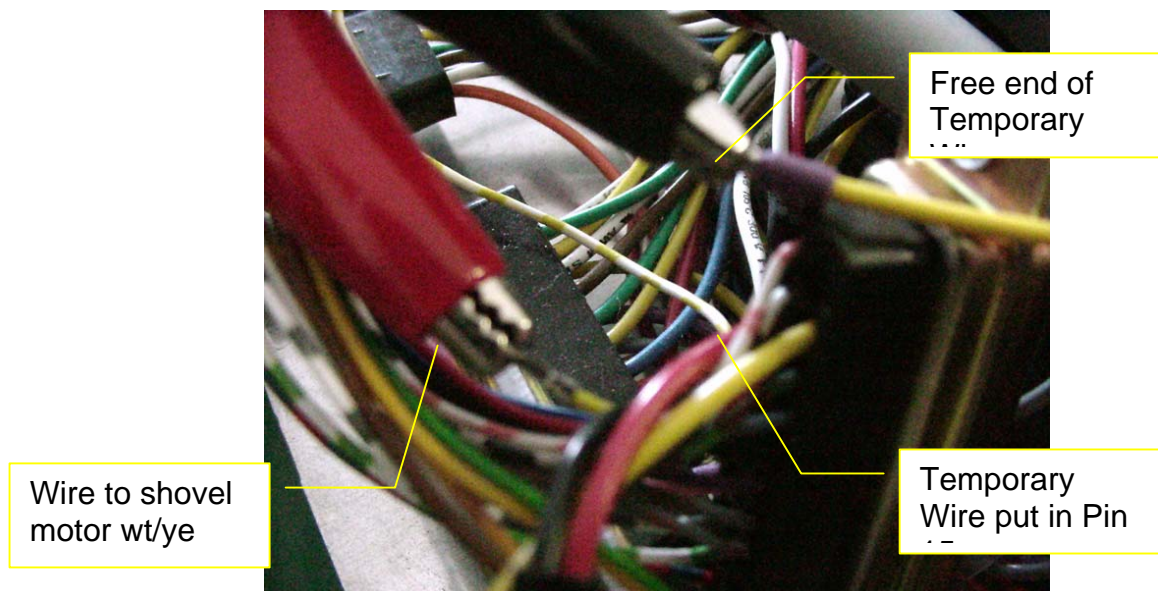
Shovel Potentiometer Intermediate Bdf Adjustment

1 Turn unit off

Put current measurement probe at pin 15 of 25-pin D-SUB connector (handler) (C1.1)

Remove wire (wt/ye) form pin15

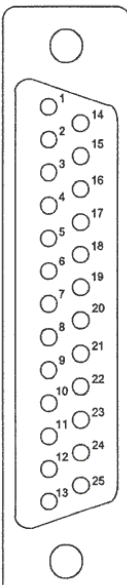
Insert temporary wire in pin 15



Put current measurement probe between temporary wire and wire removed from pin 15

Set current measurement to +/-200mA DC



1.1 Handler StX40							
IC HC HR DC							
Von	Bezeichnung	Nach	Farbe		Farbe	Nach	Bezeichnung
				D-Sub 25 polig male			
							
4.8.9	Plt Det off	1.1.1	wtpk		-	1.1.14	NC
4.8.3	PP Sensor	1.1.2	wtbk			1.1.15	Mot Shvl -
-	+24V	1.1.3	-		wtye	1.1.16	Mot Shvl +
4.8.20	NC	1.1.4	rd		bngn	1.1.17	Sw Turn IN
-	GND	1.1.5	-		gy	1.1.18	Shvl Front
4.8.21	Stp Turn A1	1.1.6	bu		bk	1.1.19	Shvl Back
4.8.22	Stp Turn C1	1.1.7	pk		vt	1.1.20	Turn Safe
4.8.11	Stp Turn B1	1.1.8	wtgy		gybn	1.1.21	Z-Lift 0
4.8.15	Stp Turn D1	1.1.9	wtgn		gypk	1.1.22	-
4.8.16	Stp Lift A2	1.1.10	rdbu		-	1.1.23	Plt Det 1
4.8.24	Stp Lift C2	1.1.11	ye		yebn	1.1.24	Stp Lift B2
4.8.25	NC	1.1.12	gn		bn	1.1.25	Stp Lift D2
-		1.1.13	-		wt		

Steckeransicht von Bestückungs Seite

- 2 Turn speed pot to minimum speed CCW
Turn torque pot to minimum CCW
- 3 Manually position lift wagon so shovel can freely extend
- 4 Turn unit on
Check current reading should be approx. 10mA
- 5 Start StxCyt32 program and select option 1 Terminal
- 6 Read T48 "RD T48" returns "1,aaaaa,sssss" and remember third value (e. g. 1,00045,00045)
- 7 Set T48 to zero "WS T48 0" returns "OK"
- 8 Go in Option 5 Component Test, Option 6 Shovel Movement, Delay = 5 s
- 9 Gradually open speed pot (CW) until shovel takes approximately 2 seconds for entire travel path
- 10 Stop shovel manually in the middle of the shovel travel path
While holding shovel in its center position gradually increase current CW until current rises
Gradually lower current (CCW) until current starts decreasing
- 11 Check shovel motion for smooth running also, manually stop shovel at several positions and check for safe start of motion
- 12 Exit Component Test program
- 13 Enter Terminal (Option 1)
Enter Service Mode "WR DM123 63450"
ST 1701 shovel out
RS 1701 shovel in
- 14 Adjust T48 by gradually increasing its value (e.g. WS T48 45, WS T48 50 ...) until shovel motion is fast until shortly before shovel reaches end position.
- 15 Exit service mode "WR DM123 0"