
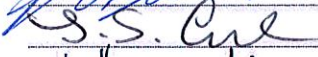
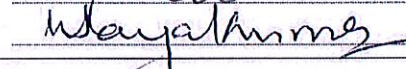


9	Reliability	The product has worked under many conditions ranging from freezing cold to hot and humid tropical conditions. The product is supplied to England, Europe, America, Asia and now Australia. It has been in service in Australian (QR) conditions since 2003 without adjustment or failure.					
10	Maintainability	<p>The product requires no maintenance during its service life. Southern Engineering Rail Services P/L supply in addition to the product, a set of setting gauges and full training of an appointed Signal group person so that they can set rollers, adjust them if ever necessary, or set new rollers in newly installed turnouts after tamping has been finalised. This person would be responsible for periodic checking of product to confirm no movement has taken place.</p> <p>In addition to this Southern Engineering Rail Services P/L can also provide paperwork form that record each turnout and the settings that were finalised on the day of commissioning, so that reference can be made to this document from time to time to ensure no adjustment has been made by "others" when conducting other works in or around the turnout area. Alternatively, this is a service that can be offered and in fact do provide in Britain and most of Europe.</p>					
11	Approval *	Schwihag integrated roller slide baseplates (as per Schwihag drawing no. P6161) for use in new turnouts or retro fitting to existing turnouts throughout the ARTC Network (excluding CRN).					
12	Conditions of Approval *	<ul style="list-style-type: none"> • Installation and maintenance as per manufacturers requirements • Include in inspection regimes • Include in maintenance regimes 					
13	Does the Originator accept the additional Conditions of Approval as set by the Review Panel:	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>

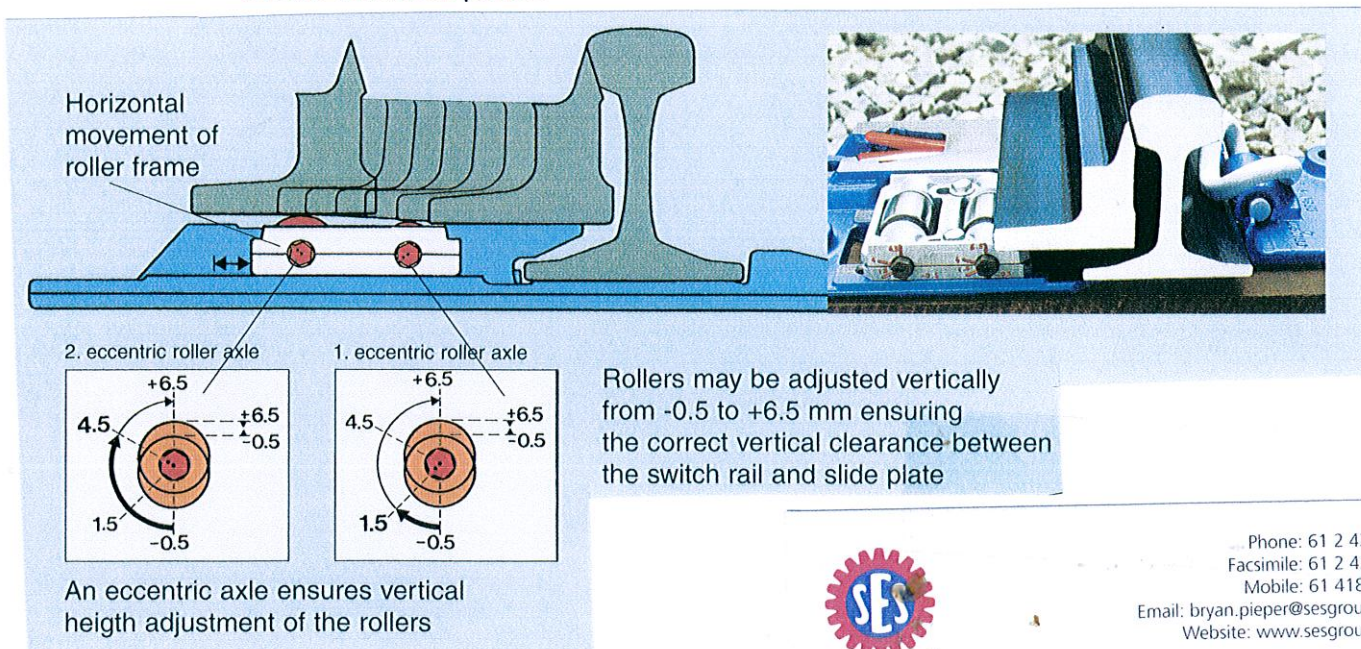
14	Sign off	ARTC office use only			
	Review Panel:				
	John Furness		Date:	23/6/2011	
	Tim Calver		Date:	27/6/2011	
	Gunaratnam Jayakumar		Date:	24/6/2011	

SCHWIHAG

Switch Roller setting instructions.

1. Check gap under rail foot on each slide plate and record details when switch blade is in closed position.
2. Starting at 1st roller with bolts only hand tight and rollers set at 0, slide roller cradle up to rail foot until the 1mm feeler gauge is between roller and rail foot.
3. Set roller closer to rail at pre measured gap + 1.5mm and the other roller at gap + 3mm and tighten bolts to 70Newton metres.
4. Repeat this for all plates on closed switch side of the turnout.
5. Throw switch 2 or 3 times to bed blade in and recheck gap under open switch to ensure a gap on every slide plate.
6. Repeat same for other switch blade.
7. Record setting adjustments and final gaps for records.

If required reset roller to higher setting if gap is not enough under switch blade on slide plate.

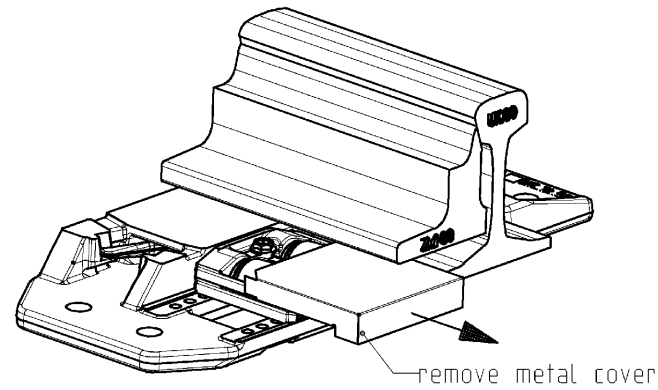
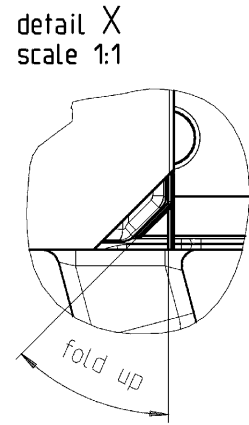
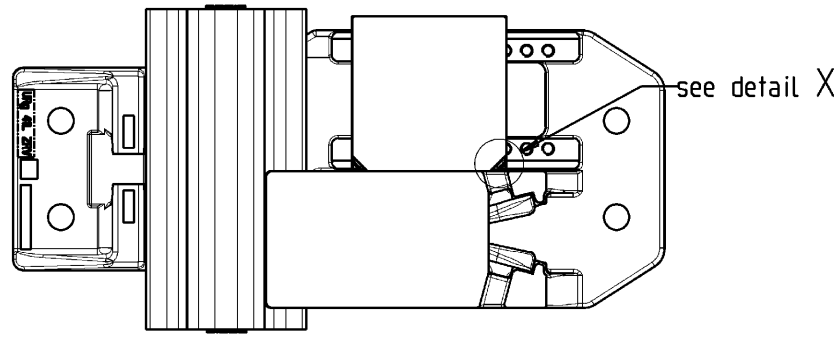


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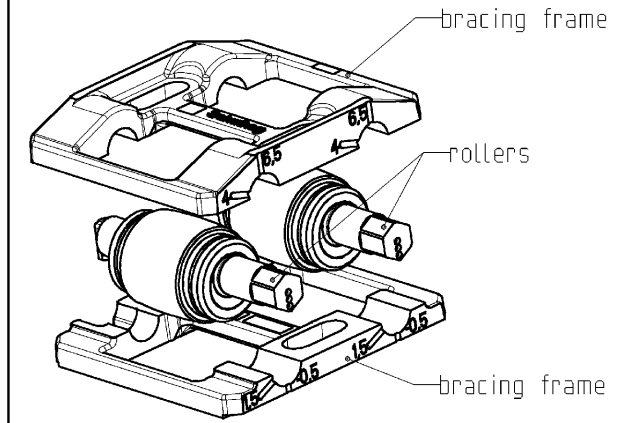
Bryan Pieper
Marketing Manager
Southern Engineering Rail Services

Southern Engineering Services Pty. Ltd.
503-505 Princes Highway Fairy Meadow NSW 2519 Australia
PO Box 193 Fairy Meadow NSW 2519 Australia

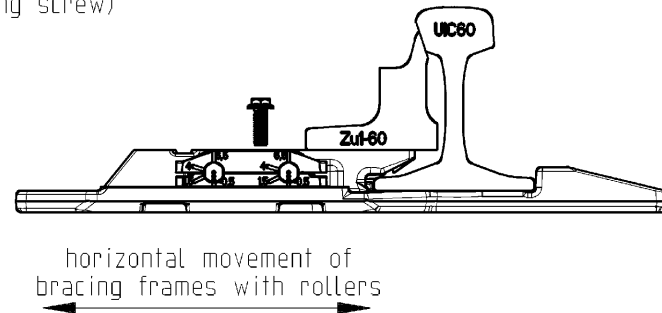
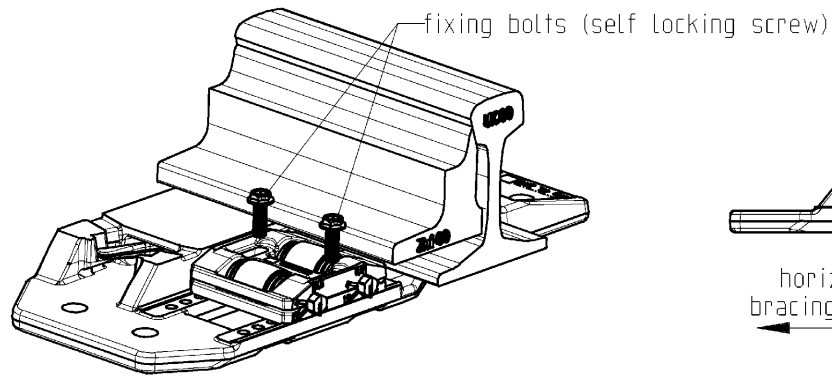
1 Only for new turnouts:
Ensure the slide chair plates are cleaned of ballast dust and debris. Then remove the metal covers by folding up the two turned down ends.



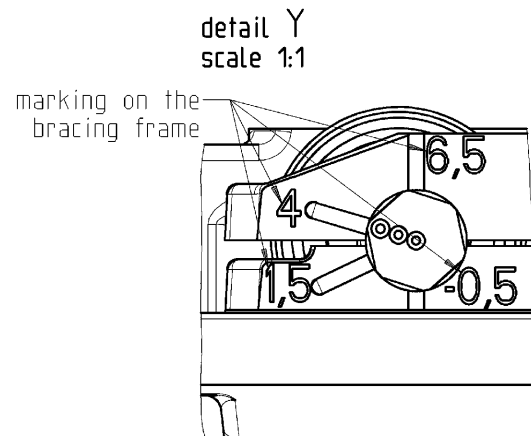
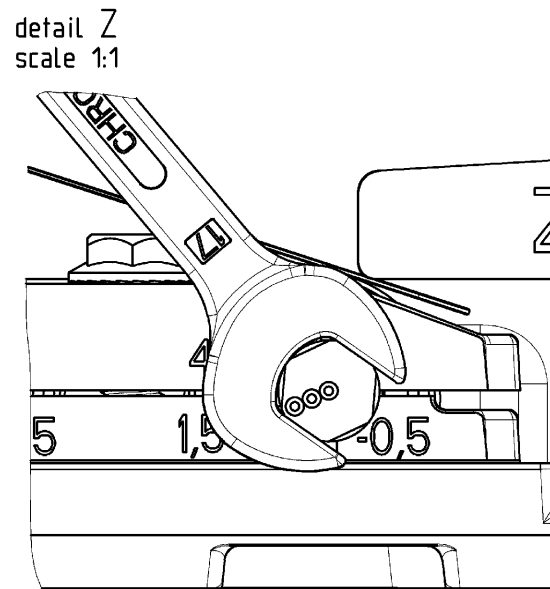
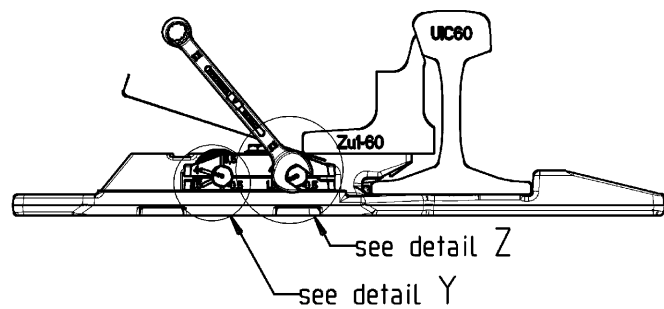
bracing frame with rollers



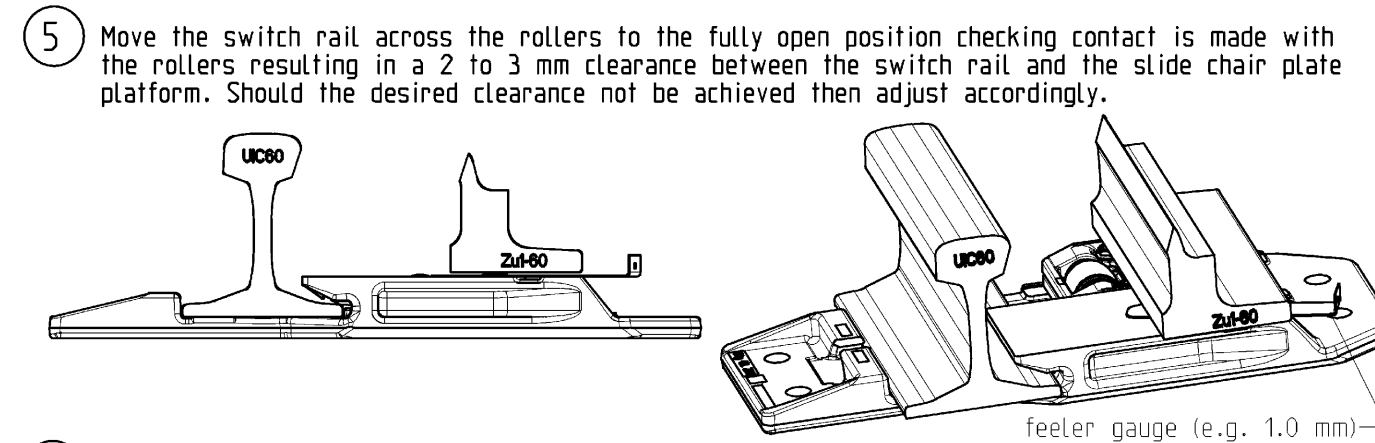
2 After loosening the bolts fixing the rollers and bracing frame to the slide chair plate, the frames with the rollers can be moved horizontally (To set the rollers the switch blade must be in the closed position).



3 Adjustment of the rollers is to be executed by turning the rollers with the ring or open spanner (SW 17). Usually the height of the first roller is 2-2.5 mm above the slide surface and the second roller 3-4 mm. Consider the marking on the bracing frames. The bracing frames should be moved until the clearance between the inner roller and the rail foot of the closed switch rail is 1 mm. Control the clearance with the 1 mm thick feeler gauge.



4 Re-check the clearance between the 1st roller and the rail foot as well as the height of the 1st roller (2-2.5 mm) and the 2nd roller (3-4 mm) again after tightening the bolts. Tighten the two bolts to 70 Nm by means of the torque wrench.



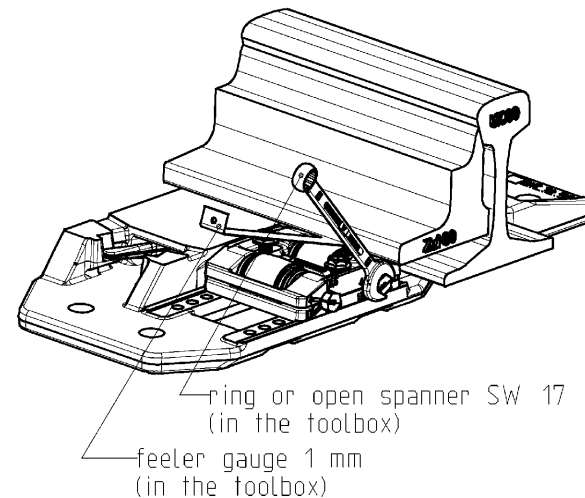
6 Where there is only a single roller this should be adjusted in a similar manner to the double roller plate, however the roller height should be set to 3.5 to 4.5 above the slide chair plate platform. If the switch rail is hogged vertically and not sitting on the sliding surface in the closed position then the gap between the raised roller and the switch rail should be 1 mm greater than the clearance (gap) between the switch rail and the slideplate surface. This ensures that the weight of the vehicle forcing the switch rail onto the slideplate cannot damage the roller assembly.

7 Repeat for opposite half set of switches (see 1-5).

- tools required for setting rollers:
- 17 mm ring or open spanner
 - torque wrench (adjustable to 80 Nm)
 - set of feeler gauges (0.5; 1.0; 1.5; 2.0; 3.0; 4.0 mm)
 - medium size screwdriver
 - small hammer

A complete toolbox can be supplied by Schwiag.

Please contact PwMM for technical support.
Tel: 01246/567219
Fax: 01246/567440
e-mail: pwmm@diel.pipex.com



We reserve all rights for this technical document. Without our previous consent it may neither be copied nor handed over to third parties.	applicable for:				
	switch	-			
	tongue rail	-			
	check rail	-			
	inclination	-	adm. division	surface	scale 1:5
	pad (mm)	-			weight Kg
	inner bracing	-	material		
	outer bracing	-			
	flangeway (mm)	-	date	name	designation
	superelevation (mm)	-	drawn 16.06.99	Heidel	setting of the rollers in the Schwiag integrated roller slide chair plates
shim (mm)	-	proved 30.06.03	Wientges		
-	-	norm 01.07.03	Meyer		
method E ISO/R 128		copied		drawing no. P6161	
		file 2D/3D	Typ: ASSEM	page 1	
		URG41L_ZRV_KOMPLETT-EINBAUANL		1 pg.	
1	Lfd. Nr.: 237	01.10.99	Hd	cat. -	
issue/alteration		date	name	source -	
				repl. for: -	
				repl. by: -	

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Gesellschaft fuer Eisenbahnenbau mbH



RH R300 TANGENTIAL SWITCH ASSEMBLY (LHTO MIRROR IMAGE)

NOTES:

- LAYOUT BASED ON RAILCORP DRAWING CV0479044 AND CV0479045.
- UNDER NORMAL CONDITIONS, WHERE 60mm OPENING IS REQUIRED AT BACK OF SWITCH AND STOCK RAIL ASSEMBLY, NO GAP SHOULD BE PRESENT ON OPPOSITE STOCK RAIL AND SWITCH ASSEMBLY.

ITEM NUMBER	QUANTITY	UNIT	ITEM NAME	DRAWING
25	4	EA	IN-BEARER PVT PLATE IPVT (LUG)	PRE01-WD-0545
24	4	EA	IN-BEARER PVT PLATE IPVT (HOLES)	PRE01-WD-0546
23	2	EA	HPC3 BASE PLATE	PRE01-WD-0774
22	2	EA	SHPC2 BASE PLATE	PRE01-WD-0774
21	2	EA	SHPC AND SHPC1 BASE PLATE	PRE01-WD-0774
20	12	EA	SWITCH STOPS SWS2A TANGENTIAL	PRE01-WD-0188
19	40	EA	M24 FLAT WASHER ZINC	-
18	10	EA	NUT M24 NYLOC	-
17	30	EA	M24 x 100 HEX HD BOLT ZINC	-
16	16	EA	40mm INSULATING BUSH (SIEMENS)	-
15	2	EA	HEELBLOCK ASSEMBLY	PRE01-WD-0539
14	1	EA	SIEMENS IN-BEARER (FRONT DRIVE) - SPHEROLOCK	AO-G1748-376
13	8	EA	STANDARD INSULATING PAD (SIEMENS)	-
12	6	EA	SCHWIHAG ROLLER PLATE	-
11	12	EA	LUG PANDROL PL70034C	-
10	28	EA	LUG PANDROL PLO034-F	-
9	1	EA	SIEMENS IN-BEARER (BACK DRIVE) - STANDARD	AO-G1748-270
8	26	EA	5mm EVA RAIL SEAT PAD	P8206
7	108	EA	PANDROL CLIPS - e2003	-
6	32	EA	SCHWIHAG CLIPS	-
5	26	EA	SCHWIHAG - PRE SLIDE PLATES	PRE01-WD-0767
3,4	1	EA	STOCKRAIL RIGHT HAND RSRT - LEFT HAND LSRT	THIS DRAWING
2	1	EA	RIGHT HAND SWITCH RAIL - RTRT	THIS DRAWING
1	1	EA	LEFT HAND SWITCH RAIL - LTRT	THIS DRAWING

PRINTED: \$DATE\$
SFWF335

REV	DATE	BY	CKD	APP	DESCRIPTION	DATE	BY	CHK	APP	DESCRIPTION
2	01MAR2011	FT	AS	KB	GENERAL UPDATE					
1	05NOV2010	FT	MT	KB	EVA RAIL SEAT PAD ADDED					

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY
DATE

PACIFIC RAIL ENGINEERING PTY LIMITED
ACN 053 116 117
24 DAISY STREET, REVESBY NSW 2212 AUSTRALIA
P.O. BOX 4454 MILPERRA NSW 1891
TELEPHONE: +61 02 9783 6300
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ABN 57 053 116 117
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PRE

THIS DRAWING IS EXCLUSIVELY PACIFIC RAIL ENGINEERING INTELLECTUAL PROPERTY AND MUST NOT BE COPIED OR PASSED ON TO THIRD PERSONS OR MADE ACCESSIBLE TO THEM WITHOUT OUR PREVIOUS WRITTEN AGREEMENT.

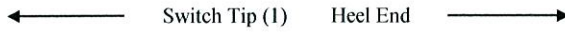
60KG RH R300 TANGENTIAL
STOCK RAIL AND SWITCH ASSEMBLY
GENERAL ARRANGEMENT
TYPE TSS300T2-132DEF

MATERIAL	CAD DATE
60kg RAIL	05.11.2010
SCALE	N.T.S.
DRAWING NUMBER	PRE01-GA-0043-14
SHEET NO	1 OF 1
STAGE CODE	C
REV	2

SCHWIHAG ROLLER SETTING / DATA SHEET

CUSTOMER	SWITCH TYPE	SETTING DATE	SITE ADDRESS & CONTACT	BEARER	POINT END	ZONE
		7-Feb-10	Site: Sandgate, Newcastle Contact:	C	183D	Australia

BEARER POSITIONS SUPPORTING ROLLER PLATES



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	x						x						x								x								

EXISTING CLOSED SWITCHRAIL / SLIDE PLATE FIT				
LH SWITCHRAIL	0.0	1.5	0.0	0.5
RH SWITCHRAIL	0.0	3.0	0.0	0.0

ROLLER SETTING HEIGHT				
LH SWITCH RAIL	4.0		3.0	
	4.5		3.5	3.0
RH SWITCHRAIL	4.0		3.0	
	4.5		3.5	4.0

LIFT OF OPEN SWITCHBLADE FOLLOWING ROLLER SETTING: -				
LH SWITCH RAIL	0.0	2.5	3.5	2.0
RH SWITCHRAIL	0.0	4.5	2.0	3.5

CLEARANCE-NO1 STRETCHER BAR TO STOCKRAIL	LH =	N/AN/A	CLAMPLOCK ONLY - CLEARANCE - TIE BAR HYDRAULIC ACTUATOR PACKAGES	N/A
	RH =	N/AN/A		

COMMENTS: RH Switchblade twisted 1.5mm
 Last slideplate is on bearer No. 28
 Point machine rodding limits the list of the switch tip

SITE CONTACT:	SIGNED BY:
.....
CLIENT REPRESENTATIVE	SCHWIHAG REPRESENTATIVE
	5-Mar-10
	DATE

PWMM LIMITED
 10 Harewood Road,
 Holymoorside,
 Chesterfield, S42 7HT.
 Tel : 01246 567219
 Fax:01246 567440

