# HOW TO INPUT DATA FOR A CUSTOM TURNOUT SWITCH by Brian Nicholls version XX: 25/10/2011

### Introduction:

In Templot, there are 3 initial basic switch type options, these are:

curved switch

semi - curved switch

straight switch

To understand the differences between these basic types of switches, and hence to be guided as to which you should select, read the < more information F1>, or press the F1 key when the particular selection screen appears.

Where possible, the popup screens which appear at particular selection points in Templot process to construct a custom switch, are displayed below in this document.

Because some of the popup screens differ slightly depending upon the type of switch selected, I have elected to deal with each type in turn regarding the required data input.

Where popup screens are common to all 3 types for data entries, to save space, that particular screen will be fully shown in the first instance it appears, for subsequent instances, only the **Figure** number associated with that first screen display will be quoted.

All dimensional data entries shown in the screen capture display's below, are the default settings for a particular switch in the range of switches that already exist in Templot, and need to be changed for your custom requirements.

Figure 1.

### **Customizing a Curved Switch:**

First select < template >

< switch settings ...>

9	select switch size and type		
	FB size CE curved flexible switch (BS-110A, BS-113A) FB size CF curved flexible switch (BS-110A, BS-113A) BH or FB 1:24 (A) non-prototype short model switch BH or FB 1:32 (B) non-prototype short model switch BH or FB 1:40 (C) non-prototype short model switch BH or FB 1:24 (A) switch for 1:6 slip BH or FB 1:32 (B) switch for 1:7 slip BH or FB 1:32 (B) switch for 1:8 slip BH or FB 1:40 (C) switch for 1:10 slip	•	<ul> <li>? help F1</li> <li>Use this list to select the size and type of switch for the control template.</li> <li>For some notes about these switches click the help button above.</li> <li>joggled stock rails</li> </ul>
	custom 1 : my custom switchcustom switch - slot 2custom switch - slot 3custom switch - slot 4custom switch - slot 5custom switch - slot 6custom switch - slot 7custom switch - slot 8custom : my custom switch		show switch info The switch info panel can be dragged by the top band and resized in the usual way. Set custom switch restore esc OK

Next select which slot you want to put your custom switch in, these slot positions are found at the lower part of the < switch settings ...> menu as shown in Figure 1. above.

Then click the < set custom switch ... > button, One of two possible screens can then appear: If the slot already contains and existing switch, then the following screen, Figure 2. appears:

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However, if the slot has no switch occupying it, then the screen shown in Figure 3. appears, and you should work on from that screen sequence:



If screen in Figure 2. appears, select < enter new or modified custom switch data in slot 1 ....8 > the slot number depends on which slot you choose to put the custom switch in. Once clicked, the following screen appears:





Now select < no - enter new custom switch for slot 1 ....8 > depending upon slot number initially chosen. Once clicked, the following screen appears:

Figure 4.



Put the name you require for your custom switch in the box and click OK. Next you will see switch type select menu, as shown in Figure 5 below:

Figure 5.

👂 data for my custom switch ?	×
Cont.	
? QUESTION ?	
Please first select the type of switch for	
my custom switch	
If you are intending to modify the existing custom switch this slot, click AS EXISTING CUSTOM SWITCH.	n in
more information F1	1
as existing custom switch (curved switch)	2
curved switch	3
semi - curved switch	4
cancel es	sc 5
straight switch	6

Having selected the < curved switch > option, the following mini screen appeared:

Figure 6.

👂 enter data for : 🛛 custom curved	switch		X
inputs :	🖌 current gau	ge : <b>S4/P4</b>	? help
metric calculator jot all			
lead length to heel (incl. planing	g, full-size inches)	270.0	inches
offset at the heel (f	full-size inches) =	10.03	inches
switch radius in FU	LL-SIZE inches =	8760.0	inches
stock-rail joint to toe (f	full-size inches) =	64.0	inches
length of switch rail (blade) (f	full-size inches) =	270.0	inches
length of stock rail from joint (f	full-size inches) =	360.0	inches
<b>⊡</b> show help flags			
Ushow data pre-selected ✓ input conversions	info F1 re-do	cancel all	ок 🗌

Enter your custom switch data correctly in the appropriate places, and click OK The following screen appears:

Figure 7.



If the < yes - make joggled stock rails optional > option is selected and clicked, the following Figure 8. screen appears:

However, if the < no - plain stock rails only > option is selected, then the screen shown in Figure 9. appears and, you should work on from that screen sequence:

Figure 8.

👂 enter data for : 🛛 custom	curved switch			×
ûnputs :	<b>~</b>	current gauge:	S4/P4 ?he	elp
metric calculator jot al				
sideways depth of j	oggle (full-size	inches) = 0.2	5 inches	
joggle length in front of b	lade tips (full-	size inches) 6.0	inches	
<ul> <li>✓ show help flags</li> <li>□ show data pre-selected</li> <li>✓ input conversions</li> </ul>	more info F1	re-do can	icel all OK	

Enter your custom switch data in the appropriate places, and click OK, the next screen appears:

Figure 9.



We will assume you have elected to make a totally custom switch, we shall select to enter data. Having selected the  $\langle yes - let me enter the spacings > option$ , the following screen appears:

•	
switch front timbering?	×
font  font  QUESTION ?  Is the switch front section timbered or sleepered?	
? help F1	3
plain track sleepers	4
turnout timbers	6
	© 85A MODELS 2011

Figure 10.

Since, in this case we are dealing with a custom turnout, we shall select the < turnout timbers > option

Figure 11.

Having selected the < yes - let me enter the spacings > option, the following screen appears:

흊 enter data for : custom switch front spacings	X
🗘 🔁 inputs : 🛛 🗸 current gauge : S4/P4	? help
spacing back from TOE to first front timber J1 = 24.5	inches
spacing back from J1 to next front timber J2 = 27.5	inches
spacing back from J2 to next front timber J3 = 0	inches
spacing back from J3 to next front timber J4 = 0	inches
spacing back from J4 to next front timber J5 = 0	inches
spacing forward from TOE to first timber S1 = 4.0	inches
Show help flags	
Show data pre-selected more info F1 re-do cancel all cancel all	ок 🗌

Enter your custom switch timbering data in the appropriate places, and click OK, the next screen appears:

👂 enter data	for : custom	switch timber	spacings		X
🗘 ? inputs :		*	current gau	ge : <b>S4/P4</b>	? help
metric calc	ulator jot al				
	spacing forwa	ard to timber	number 2 =	28.0	inches
	spacing forwa	ard to timber	number 3 =	28.0	inches
	spacing forwa	ard to timber	number 4 =	28.0	inches
	spacing forwa	ard to timber	number 5 =	28.0	inches
	spacing forwa	ard to timber	number 6 =	28.0	inches
	spacing forwa	ard to timber	number 7 =	28.0	inches
	spacing forwa	ard to timber	number 8 =	28.0	inches
	spacing forwa	ard to timber	number 9 =	28.5	inches
Show help Show data	flags				
input conv	ersions	more info F	1 re-do	cancel all	ок 🗌

## Figure 12.

Enter your custom switch timbering data in the appropriate places, and click OK, the next screen appears:

Figure 13.

🦻 enter data for :	custom switc	h timber spac	ings		X
🗘 <mark>?</mark> inputs :		<mark>~</mark> с	urrent gau	je : <b>S4/P4</b>	? help
metric calculator	jot all				
spacing f	forward to t	imber numb	er 10 =	28.5	inches
spacing f	forward to t	imber numb	er 11 =	26.0	inches
spacing f	forward to t	imber numb	er 12 😑	26.0	inches
spacing f	forward to t	imber numb	er 13 =	0	inches
♥show help flags show data pre-selec	ted	e info E1	re-do	cancel all	OK
input conversions ∠	mol	ennori	1e-00	cancer all	

Enter the remainder of your custom switch timbering data in the appropriate places, and click OK, the screen in Figure 1. above appears:

You have now completed the basic custom switch data entry for a Curved Switch, so click OK:

## Customizing a Semi – Curved Switch:

First select < template >

## < switch settings ...>

Now follow the sequences as shown in Figure 1 through Figure 5 above, remembering to now select the option < semi - curved switch > at the Figure 5 and click OK, at which point, the following popup screen appears:.

👂 enter data for : 🛛 custom	semi - curved switch		
♀ ? inputs:	ע current gau	ıge : <b>S4/P4</b>	? help
metric calculator jot al			
straight planing l	ength (full-size inches) =	88.0	inches
straig	nt planing unit angle 1: =	32.0	
lead length to heel (incl.	planing, full-size inches)	257.0	inches
switch radiu	s in FULL-SIZE inches =	7356.0	inches
stock-rail joint f	to toe (full-size inches) =	65.0	inches
length of switch rail (b	lade) (full-size inches)  =	270.0	inches
length of stock rail from	n joint (full-size inches) =	360.0	inches
✓ show help flags □ show data pre-selected	more info F1 re-do	cancel all	
Input conversions			

Figure 14.

Enter your custom switch data in the appropriate places, and click OK: On clicking OK, Follow the sequences as for Figures 7 through Figure 10 above:

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Joggled or plain stock rails selection here.

Then let me enter spacings.

Plain track sleepers or turnout timbers selection here.

At step, Figure 10. when you have clicked your selection, the following screen appears:

👂 enter data for : 🦳 custom	switch front s	spacings		X
♀ ? inputs :	*	current gau	ge : <b>S4/P4</b>	? help
metric calculator jot al				
spacing back from TOE	to first front	timber J1 =	24.5	inches
spacing back from J1	to next front	timber J2 =	28.0	inches
spacing back from J2	to next front	timber J3 =	0	inches
spacing back from J3	to next front	timber J4 =	0	inches
spacing back from J4	to next front	timber J5 =	0	inches
spacing forward from	TOE to first	timber S1 =	3.5	inches
<b>∀</b> show help flags				
Show data pre-selected ✓ input conversions	more info l	F1 re-do	cancel all	ок 🗌

# Figure 14.

👂 enter data for : 🦳 custon	switch timber spacings	
🗘 ? inputs :	✓ current gauge : S4/P	4 ?help
metric calculator jot a		
spacing forw	ard to timber number 2 = 28.0	inches
spacing forw	ard to timber number 3 = 28.0	inches
spacing forw	ard to timber number 4 = 28.0	inches
spacing forw	ard to timber number 5 = 28.0	inches
spacing forw	ard to timber number 6 = 28.0	inches
spacing forw	ard to timber number 7 = 28.0	inches
spacing forw	ard to timber number 8 = 28.5	inches
spacing forw	ard to timber number 9 = 28.5	inches
<ul> <li>✓ show help flags</li> <li>☐ show data pre-selected</li> <li>✓ input conversions</li> </ul>	more info F1 re-do cancel all	] ОК 🗌



END SCREEN click OK.

### **Customizing a Straight Switch:**

First select < template >

< switch settings ...>

Now follow the sequences as shown in Figure 1 through Figure 5 above, remembering to now select the option < straight switch > at the Figure 5 and click OK, at which point, the following popup screen appears:.

👂 enter data for : 🛛 custom stra	ight switch		×
ûnputs :	✓ currer	it gauge: S	4/P4 ?help
metric calculator jot all			
lead length to heel (incl. pla	ning, full-size inc	hes) 144.0	inches
offset at the hee	el (full-size inche	s) = 4.5	inches
stock-rail joint to to	e (full-size inche	s) = 65.0	inches
length of switch rail (blade	e) (full-size inche	s) = 174.0	inches
length of stock rail from joir	nt (full-size inche	s) = 360.0	inches
<b>⊡</b> show help flags			
Show data pre-selected ✓ input conversions	ore info F1 re-	do cancel	all OK 🗌

#### Figure xx.

Joggled or plain stock rails selection here.

Then let me enter spacings.

Plain track sleepers or turnout timbers selection here.

inputs:       current gauge:       S4/P4       ? help         metric calculator       jot all         spacing back from TOE to first front timber J1 = 24.5       inches         spacing back from J1 to next front timber J2 = 28.0       inches         spacing back from J2 to next front timber J3 = 0       inches
metric calculator       jot all         spacing back from TOE to first front timber J1 = 24.5       inches         spacing back from J1 to next front timber J2 = 28.0       inches         spacing back from J2 to next front timber J3 = 0       inches
spacing back from TOE to first front timber J1 = 24.5inchesspacing back from J1 to next front timber J2 = 28.0inchesspacing back from J2 to next front timber J3 = 0inches
spacing back from TOE to first front timber J1 = 24.5inchesspacing back from J1 to next front timber J2 = 28.0inchesspacing back from J2 to next front timber J3 = 0inches
spacing back from J1 to next front timber J2 = 28.0inchesspacing back from J2 to next front timber J3 = 0inches
spacing back from J2 to next front timber J3 = 0 inches
spacing back from J3 to next front timber J4 = 0 inches
spacing back from J4 to next front timber J5 = 0 inches
spacing forward from TOE to first timber S1 = 4.0 inches
<b>✓</b> show help flags
Show data pre-selected     more info F1     re-do     cancel all     OK



🟓 enter data for : 🛛 custom	ı switch timber spacings	
🗘 🔋 inputs :	✓ current gauge : S4/P4	4 ? help
metric calculator jot al		
spacing forwa	rd to timber number 10 = 24.0	inches
spacing forwa	rd to timber number 11 = 24.0	inches
spacing forwa	rd to timber number 12 = 24.0	inches
spacing forwa	rd to timber number 13 = 25.0	inches
spacing forwa	rd to timber number 14 = 0	inches
✓ show help flags ☐ show data pre-selected ✓ input conversions	more info F1 re-do cancel all	οκ 🗔

END SCREEN click OK.

NEXT If Joggled Stock Rails Is Selected.