The ENGL Custom Footswitch Z-10 is designed for ENGL amps that are equipped with the ENGL MIDI Interface Port. It enables you to select channels directly and activate diverse auxiliary functions. For amps that feature more than two switchable auxiliary features, you can assign the desired function to the two switches located on the Z-10 via coding switches.

The defaults or factory presets for the coding switches are the Combo Model E360's (& E362) Master A/B and Reverb switching functions; the two switches on the Z-10 are labelled accordingly (second line).

No further adjustment of the coding switches is required for this configuration. Power is supplied to the footswitch via the special connector cable.

NOTE: If you chose to modify the coding switches, there are several crucial details you must bear in mind. Please ensure you read these instructions thoroughly!
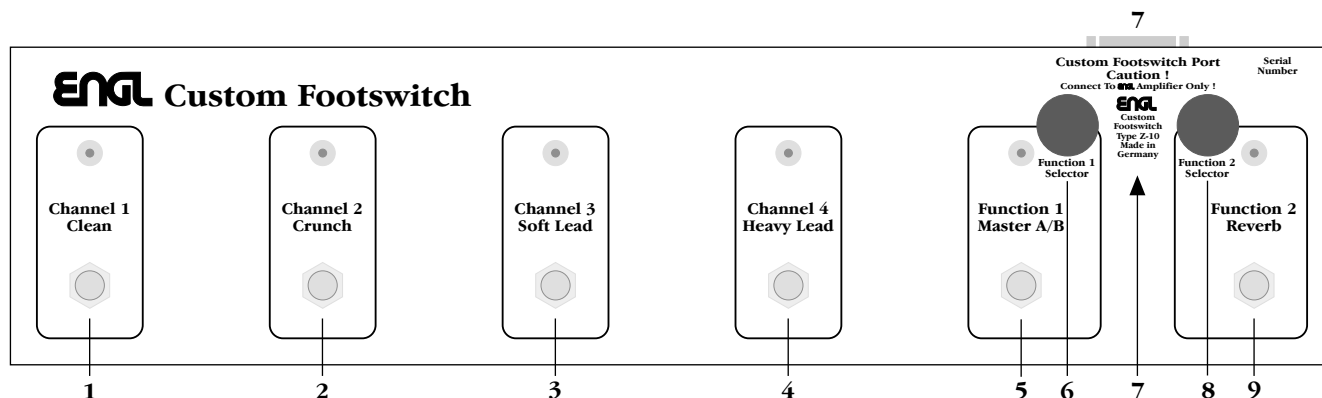
Contents:
1. ENGL Custom Footswitch Z-10;
2. One connector cable 7 m in length (Sub D connector/connector, 1:1);
   a 10m cable is optionally available
3. Operating Instructions

Cable connections:
1. Make sure the amplifier is OFF before you connect the cable.
2. Plug the connector cable to both the footswitch and amp. Fasten the screws on the mounting brackets. Always check the screws to ensure the plugs are inserted and fastened properly!
3. The cable should never be bent at a severe angle near the two plugs, nor should the connectors/ports be subjected to tensile force. In other words, don't jerk or force the plugs or cable.

CAUTION!
Never connect either of the two ports at the amp or footswitch to an external device such as a computer or printer, etc.
If you do, you may damage the device and possibly the amp and footswitch.

Definition:
Auxiliary functions: ENGL amplifiers are equipped with features that can be activated remotely such as channel selection. In this context "auxiliary functions" are features other than channel selection that can switched via the MIDI Interface Port (e.g. Master A/B, Rough/Smooth, Reverb, etc.).

1.Channel 1, Clean
The amp is switched to Channel 1, Clean Channel when you press this button. The red LED located above the button illuminates to indicate the Clean channel is active. This channel is also the default, i.e. it is activated automatically when you power the amp up.

2.Channel 2, Crunch
When you press this button, the amp switches to Channel 2, Crunch Channel, which is equivalent to the Crunch 1 channel in all amp heads. The red LED located above the button illuminates to indicate the Crunch (Crunch1) channel is active.

3 Channel 3, Soft Lead
When you press this button, the amp switches to Channel 3, Soft Lead Channel, which is equivalent to the Crunch2 channel in all amp heads. The red LED located above the button illuminates to indicate the Soft Lead (Crunch2) channel is active.

4 Channel 4, Heavy Lead
When you press this button, the amp switches to Channel 4, Heavy Lead Channel, which is equivalent to the Lead channel in all amp heads. The red LED located above the button illuminates to indicate the Lead channel is active.

5 Function 1, Master A/B
This button activates one or several of the amp's auxiliary functions, depending on the code switch (6) setting. The factory preset for the code switch is "1-On," which for the Combo Model E360 (& E362), switches Master A and Master B. The red LED located above the button illuminates to indicate Master B is active, or that function you have defined via the code switch (6) is active.

6 Function 1 Selector
The code switches of this coding group (located under the cover panel) enable you to assign one or several auxiliary functions to the Footswitch's Function 1 Selector button. Refer to Table 1 for details on which code switch is responsible for which auxiliary function. Code Switch 7 in this group is assigned the special function "MIDI MODE LED Active", In the On position, the MIDI Mode LED at the amp illuminates. You can, if you so desire, use this LED to indicate that the Footswitch is connected.

7 Custom Footswitch Port
25-pin Sub-D port located on the side panel of the footswitch. Plug the connector cable from the amp to this port.

IMPORTANT! CAUTION!
Never connect either of the two ports at the amp or footswitch to an external device such as a computer or printer, etc.
If you do, you may damage the device and possibly the amp and footswitch.

8 Function 2 Selector
The code switches of this coding group (located under the cover panel) enable you to assign one or several auxiliary functions to the Footswitch's Function 2 Selector button. Refer to Table 1 for details on which code switch is responsible for which auxiliary function. The special functions of code switch 7 are explained on Page 2, in the section entitled "Function 2 Selector: special function Code Switch 7".

9 Function 2, Reverb
This button activates one or several of the amp's auxiliary functions, depending on the code switch (8) setting. The factory preset for the code switch is "2-On," which for the Combo Model E360 (& E362), switches on/off the Reverb. The red LED located above the button illuminates to indicate Reverb is active, or that function you have defined via the code switch (8) is active.

Function 2 Selector: special function code switch 7
In the OFF position: Channel and auxiliary functions can be switched at the amp as well as via footswitch,
provided the function buttons at the amp are in the ON position (depressed). This setting is essential for amps
that feature several auxiliary functions, such as Model E610 and E660, to ensure that these auxiliary functions are not blocked.
Table 3 illustrates an application option for the SAVAGE special edition (Model E660).
NOTE: The function button at the amp for the feature you went to switch via the Z-10 must be in the ON position (depressed),
          otherwise you cannot activate the function via footswitch!
In the ON position: All function buttons at the amp are blocked. The channel and auxiliary functions can be activated and switched
via footswtich only. This option should be used for amps such as Model E360 (& E362) that feature two auxiliary functions.
This is also a practical application for the SAVAGE 120, when you want to set up the following configuration: Master A/B assigned to
the Function 1 button (5) and both Rough/Smooth and Presence A/B assigned to the Function 2 button (9). The code switch settings
for this configuration are depicted in Table 2.

NOTE: To avoid malfunctions, identical code switch numbers in the code switch groups (6) and (8) should never be set to the
          ON position! In other words, both Switch 1 of Group (6) and Switch 1 of Group (8) may not be set to ON, Switch 2, Group (6)
          and Switch 2, Group (8) must have different settings, and so forth. The only exception to this rule is Code Switch 7.

NOTE: Once you have configured the code switches,
          replace the covers to prevent dust and debris from entering the footswitch chassis.
          Any foreign matter in the switches can cause malfunctions.
          The covers are easy to remove. First remove the front panel
          and then simply spread the four detent latches and pull the cover off.

Table 1:
Code switch auxilliary function assignments for diverse amp models

code switch =>	1	2	3	4	5	6
model:						
Sovereign 100* Typ E360 (E362)	Master A/B	Reverb On/Off	-	-	-	-
SAVAGE 120 Typ E610	Rough/Smooth	Master A/B	Presence A/B	-	-	-
SAVAGE special edition Typ E660	Rough/Smooth	Master A/B	Presence A/B	Reverb On/Off	Speaker A/B	Triode Pentode

This table applies for both code switch groups (6) and (8)
NOTE:
Code switches in the code switch group (6) and (8) bearing identical numbers should never both be set to the ON position! The only exception of this rule is Code Switch 7.
*: For settings see the drawing below!

Table 2:
Suggested configuration for SAVAGE 120, Type E610:

code switch =>	1	2	3	4	5	6	7
Function 1-Selector (6):	Off	On	Off	Off	Off	Off	Off/On
Function 2-Selector (8):	On	Off	On	Off	Off	Off	On

This setting results the following configuration: The Master A/B feature is assigned to the Function 1 button (5) and both Rough/Smooth and Presence A/B are assigned to the Function 2 button (9). All functions can only be remote controlled via the Footswitch Z-10.

Table 2:
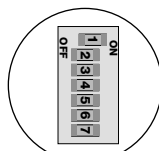Suggested configuration for SAVAGE special edition, Type E660:

code switch =>	1	2	3	4	5	6	7
Function 1-Selector (6):	Off	On	Off	Off	On	On	Off/On
Function 2-Selector (8):	On	Off	On	Off	Off	Off	Off

This setting results the following configuration: The Master A/B, Triode/Petode and the Speaker A/B feature are assigned to the Function 1 button (5); that means this functions are being switched at the same time when you depress the Function1 button. The function 2 button (9) controls the Rough/Smooth and the Presence A/B function.
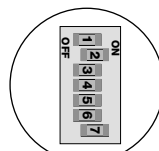
NOTE:
For this example, all buttons at the amp must be set to the ON position (depressed),
with the exception of the Reverb button. If a button is in the OFF position,
its function cannot be activated via footswitch.

**For the ENGL SOVEREIGN 100 (E360 or E362) set the Code switches at Function 1 Selector (6)
and Function 2 Selector (8) as described and drawn here:**

Function 1 Selector (6):
("Master A/B")
switch 1 in position "ON";
all other switches in position "OFF"

Function 2 Selector (8):
("Reverb")
switch 2 in position "ON";
switch 7 in position "ON";
all other switches in position "OFF"

Function 1 Selector

Function 2 Selector