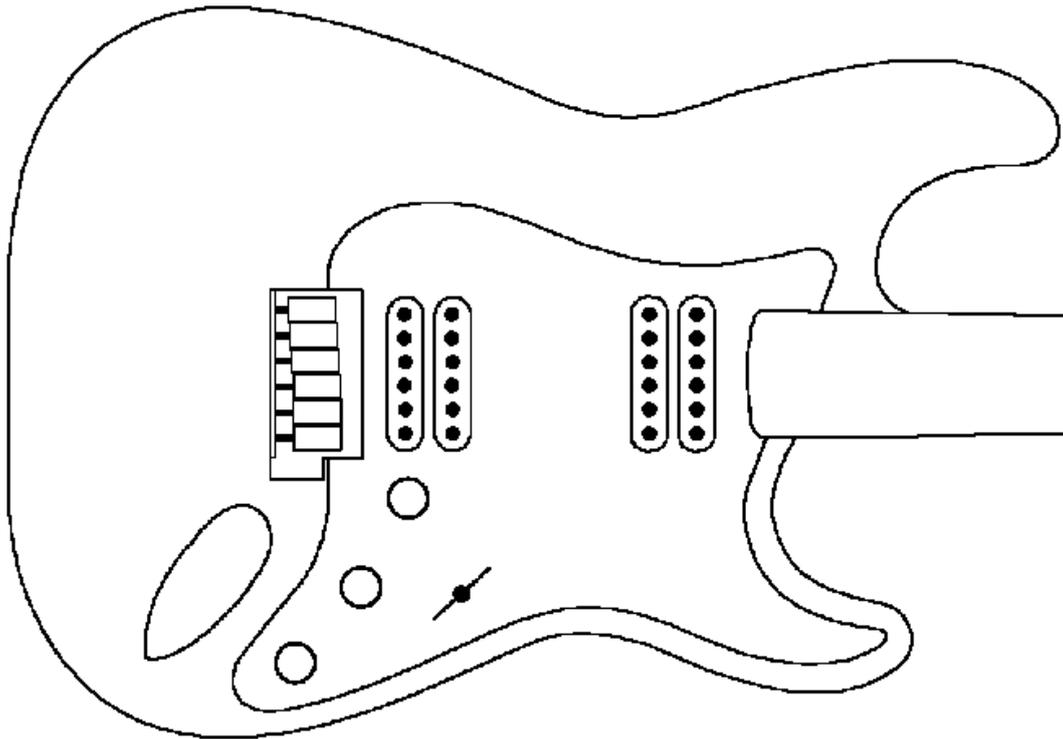


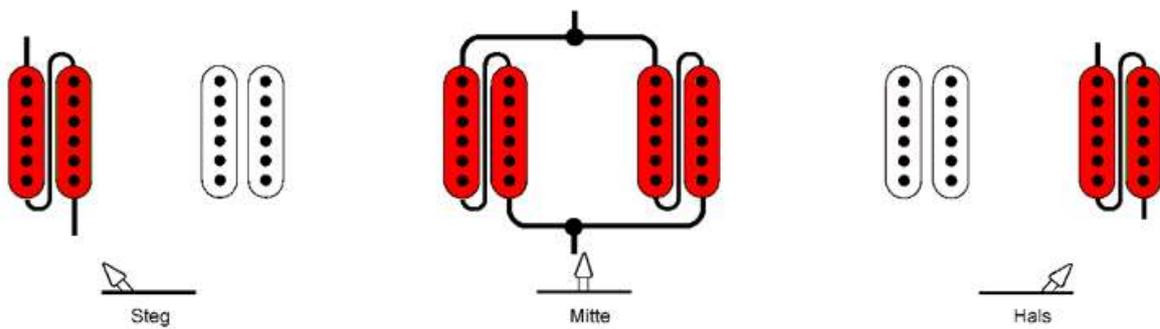
# HH

HH: 2 Humbuckers

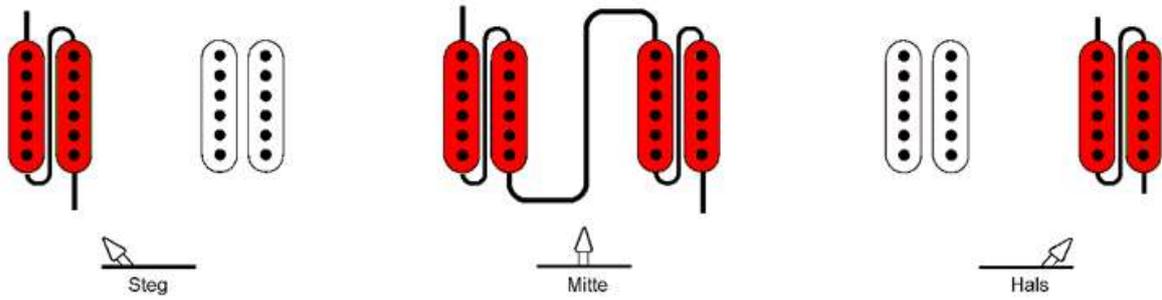
## Overview



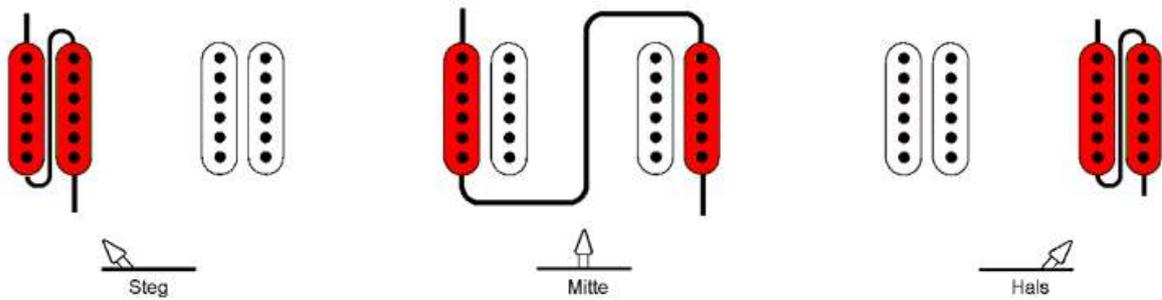
HH1. Classic switching with three positions, Megaswitch T



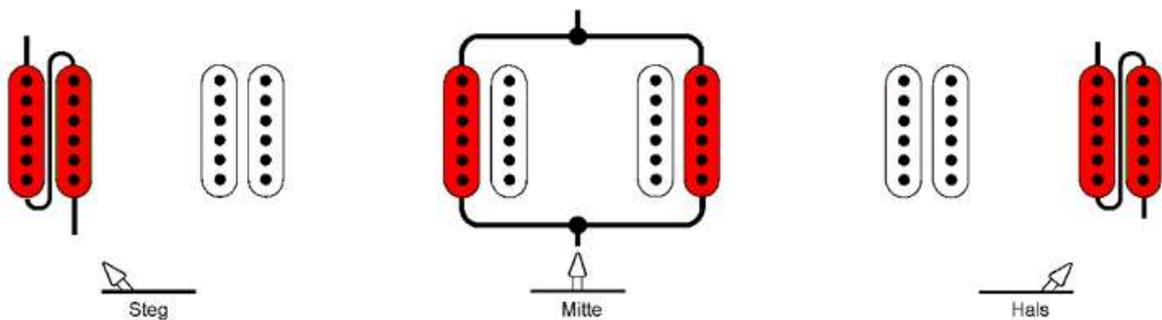
**HH2. Three positions, in middle position, switching in series, Megaswitch T**



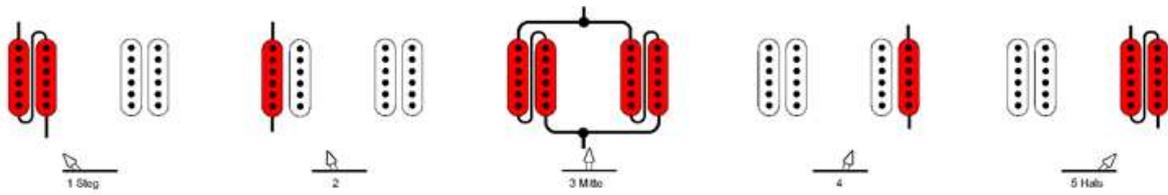
**HH3. Three positions, in middle position with split Humbucker, outer coils in series, Megaswitch T**



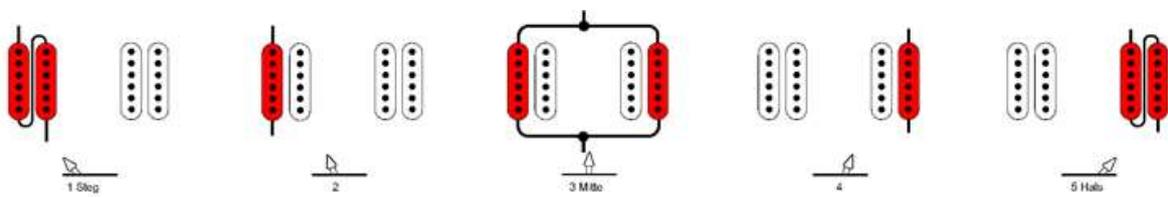
**HH4. Three positions, in middle position with split Humbucker, outer coils parallel, Megaswitch T**



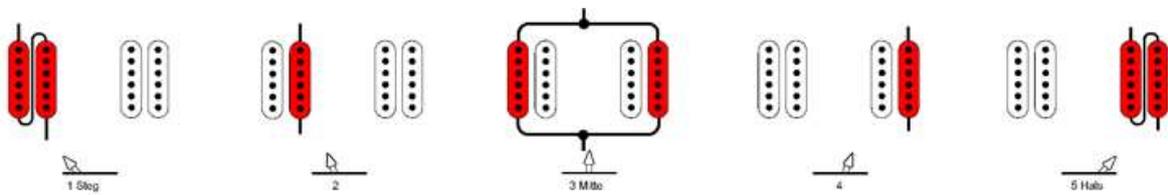
**HH5. Five Positions with Humbucker-splitting in position 2 and 4, Megaswitch M**



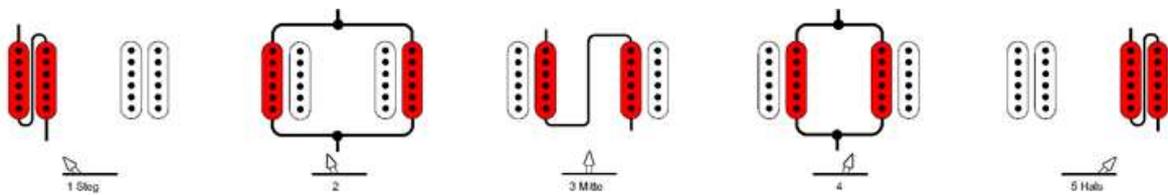
**HH6. Five positions with Humbucker-splitting in position 2, 3 and 4, Megaswitch M**



**HH7. Five positions with Humbucker-splitting in position 2, 3 and 4, Megaswitch E**



**HH8. Five positions with parallel switching in position 2 and 4, Megaswitch M**

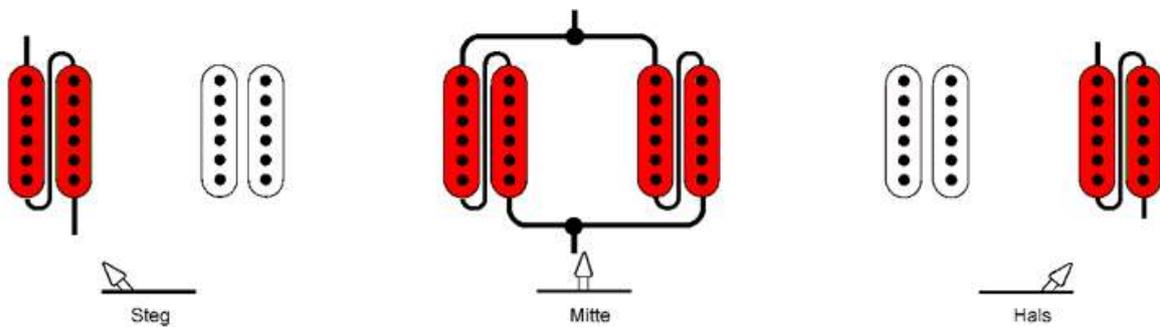


## Detail drawing

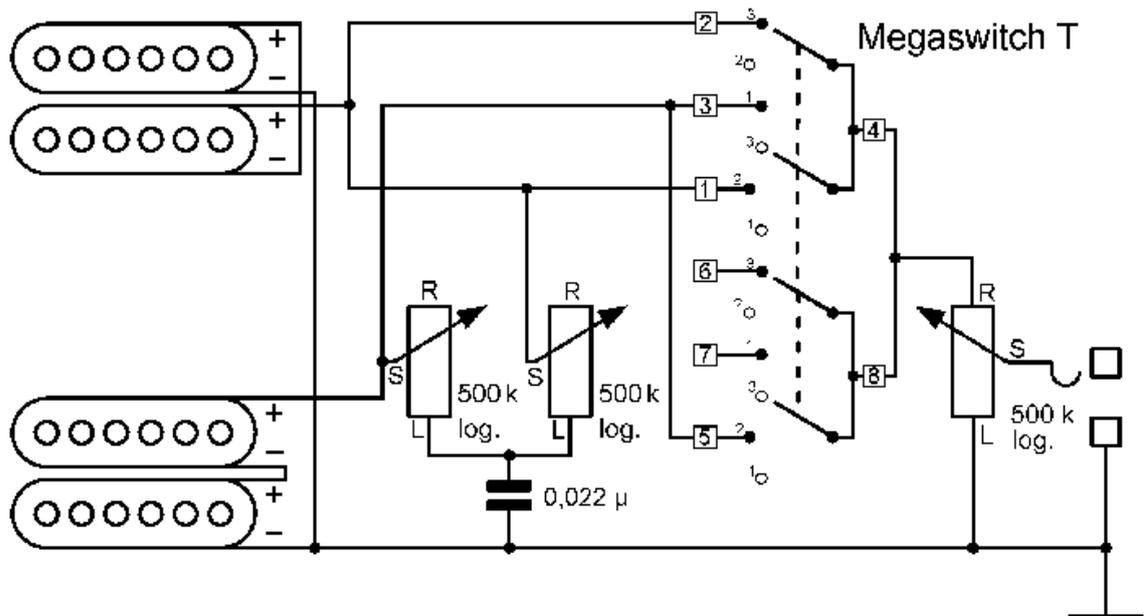
### HH1. Classic switching with three positions, Megaswitch T

In guitars with 2 Humbuckers, this is the simplest standard switching. The switches have 3 positions and control the bridge both parallel and the neck. Each one has its own tone control. The ideal switch for this application is the Megaswitch T.

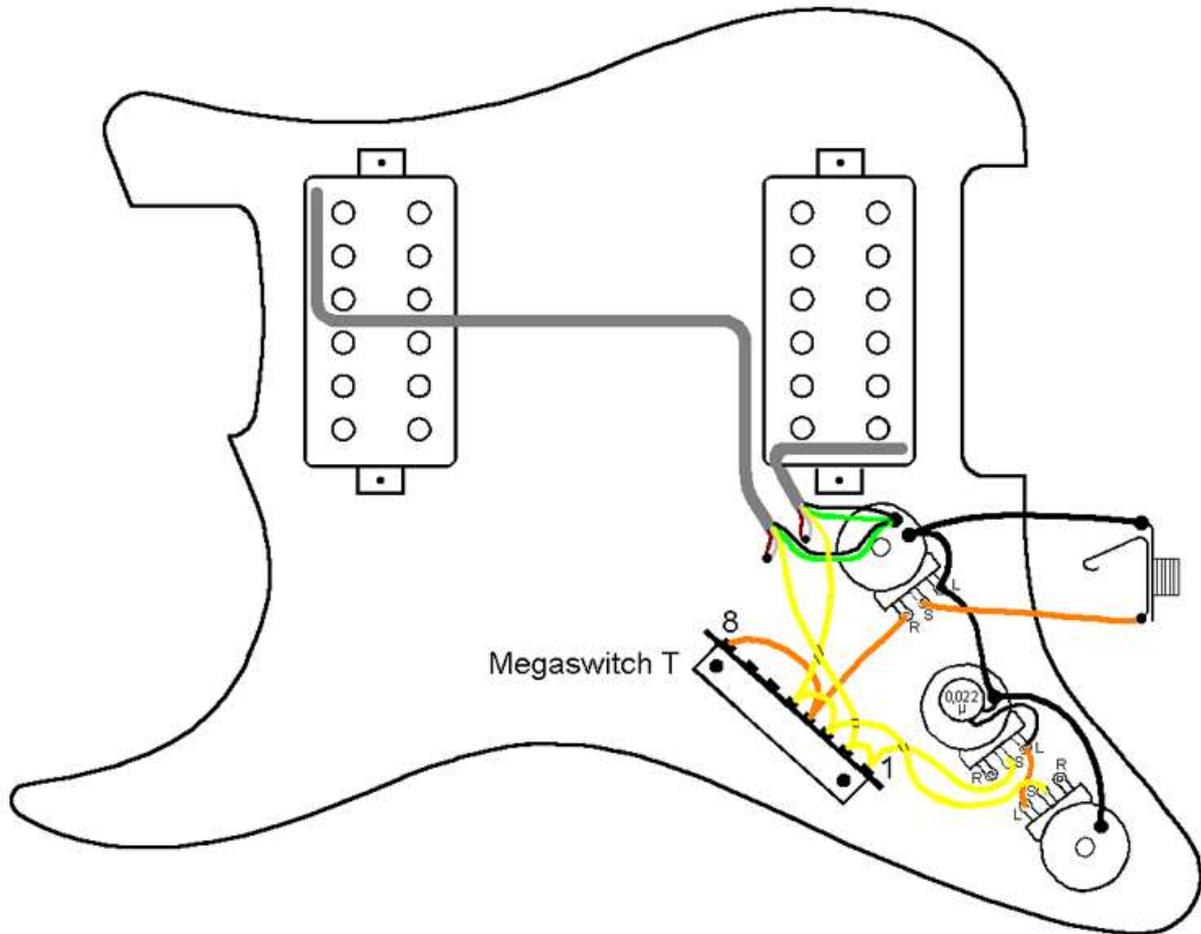
Switching functions:



Electrical switching principle:



Wiring diagram:



### Connections:

Positions

- 1 bridge humbucker
- 2 both parallel
- 3 neck humbucker

Connections

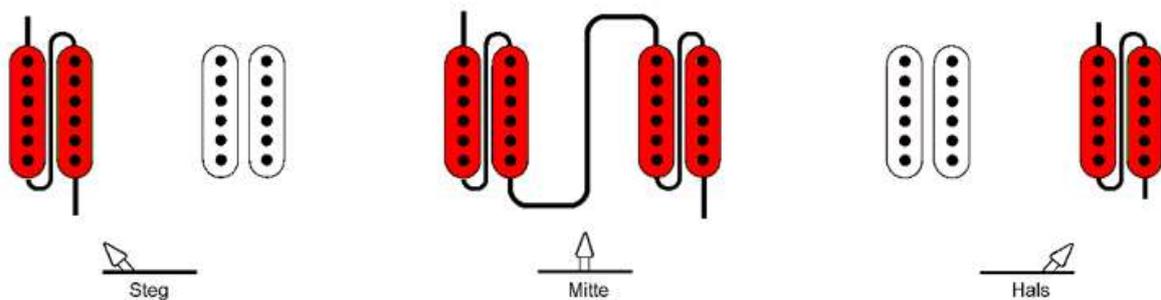
- 1 to 2, neck hot wire
- 2 to 1, neck hot wire
- 3 to 5, bridge hot wire
- 4 to 8, output
- 5 to 3, bridge hot wire
- 6 -
- 7 -
- 8 to 4, output
- ground: both cold wires

## HH2. Three positions, in middle position, switching in series, Megaswitch T

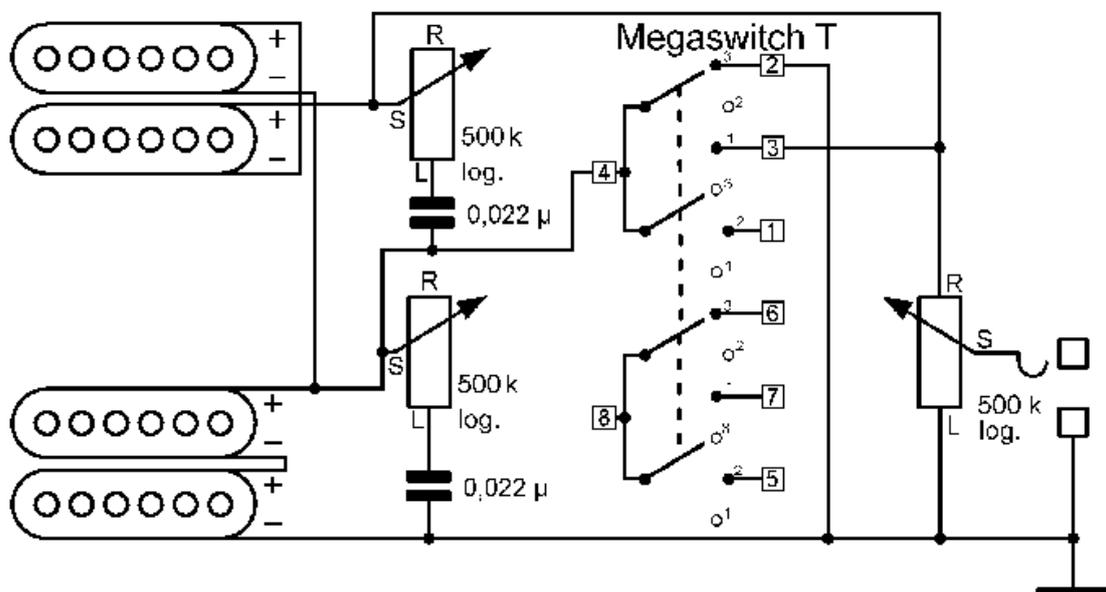
With this version, both Humbuckers are switched in series in the middle position. Compared to parallel switching, this results in a louder, fuller tone. In both outer positions, one or the other of the pickups is deactivated. Here, on the neck Humbucker, all coil connections must be disconnected from the earth/ground.

In the middle switch position, both Humbuckers are in series. Compared to parallel switching, this creates a louder, fuller tone. In both outer positions, one or the other pickup is deactivated. Here, all coil connections on the neck Humbucker must be disconnected from the earth/ground. This means that Humbucker types with single-core insulated cables are unsuitable. If the high frequencies are to be reduced in the middle position, both tone control knobs should be used to achieve this. Megaswitch T is the ideal choice in this case.

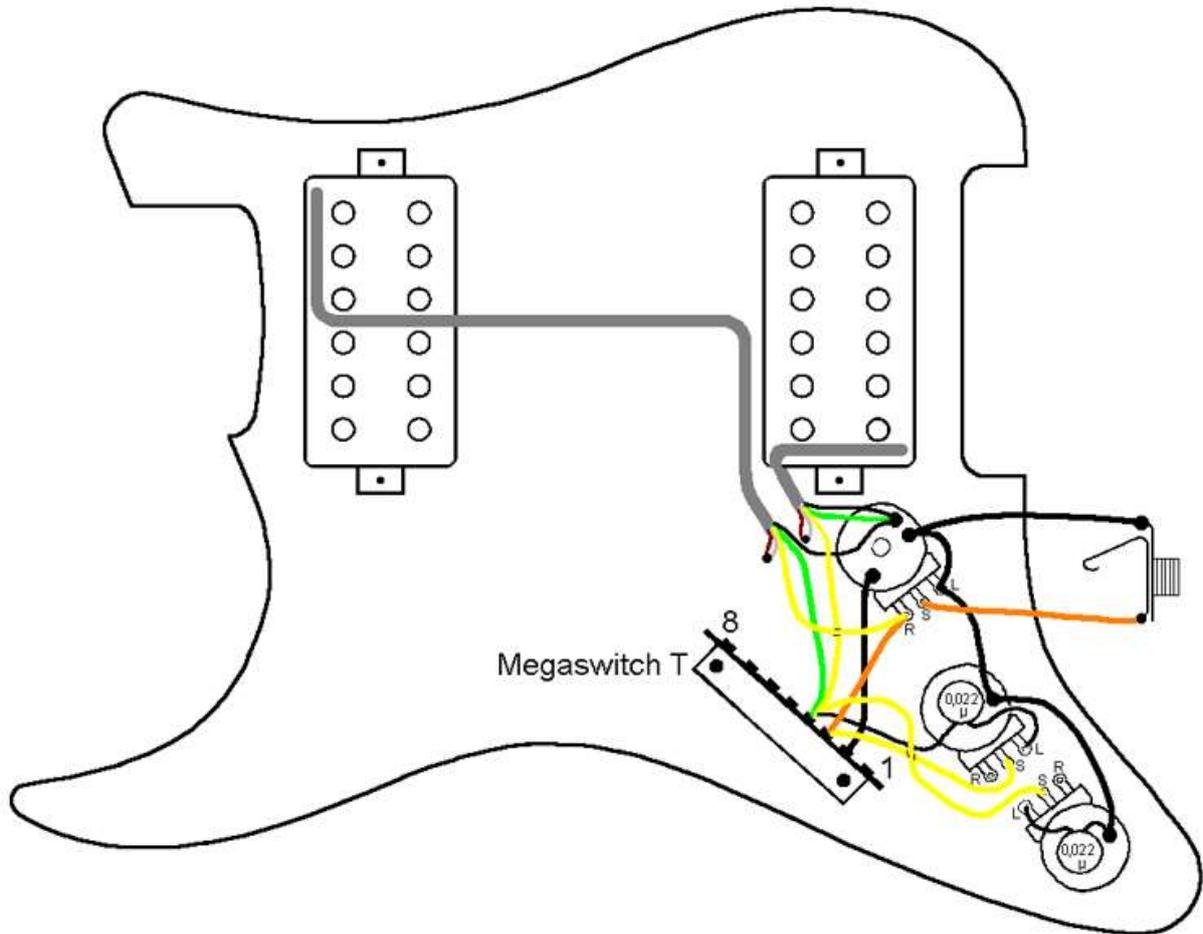
Switching functions:



Electric switching principle:



Wiring diagram:



### Connections:

Positions

- 1 bridge humbucker
- 2 both in series
- 3 neck humbucker

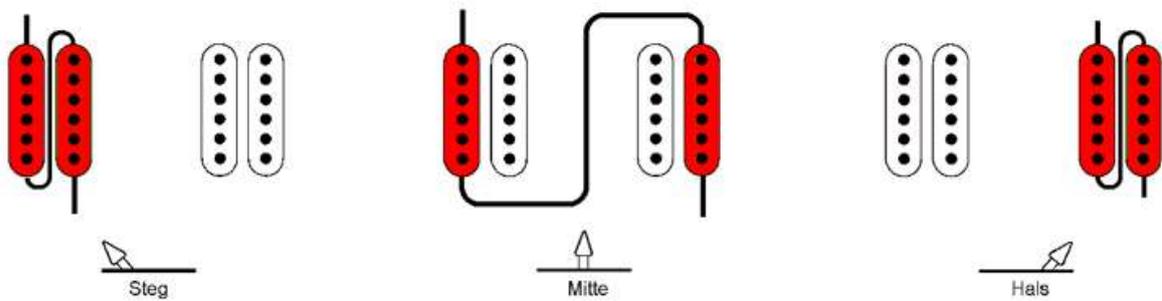
Connections

- 1 -
  - 2 ground
  - 3 neck hot wire and output
  - 4 neck cold wire and bridge hot wire
  - 5 -
  - 6 -
  - 7 -
  - 8 -
- ground: 2, bridge cold wire

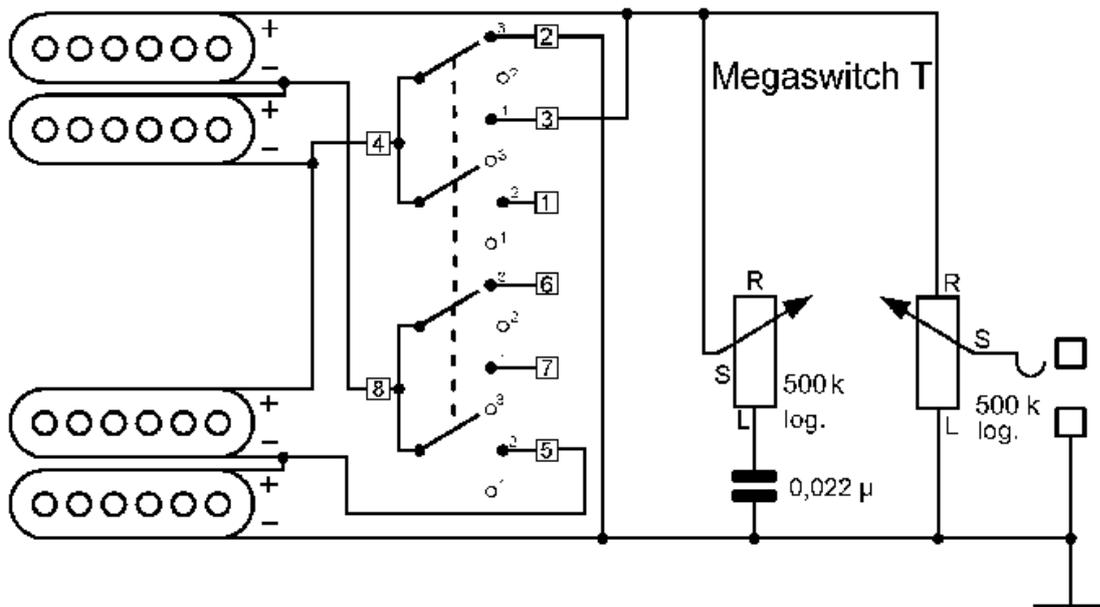
### HH3. Three positions, in middle position with split Humbucker, outer coils in series, Megaswitch T

With this version, the middle switch position splits both Humbuckers, although the remaining coils (here the outer ones) are switched in series. Both inner coils are deactivated. This creates a brighter sound compared to coils in series which are not split. It is also possible to activate both inner coils or additionally, an outer and an inner one. In this case, both coils on the Humbucker must be reversed. The middle switch position is buzz-free when a north pole and a south pole coil operate simultaneously. For this switching position, just a single tone control is advisable. The Megaswitch T is the ideal switch for this application.

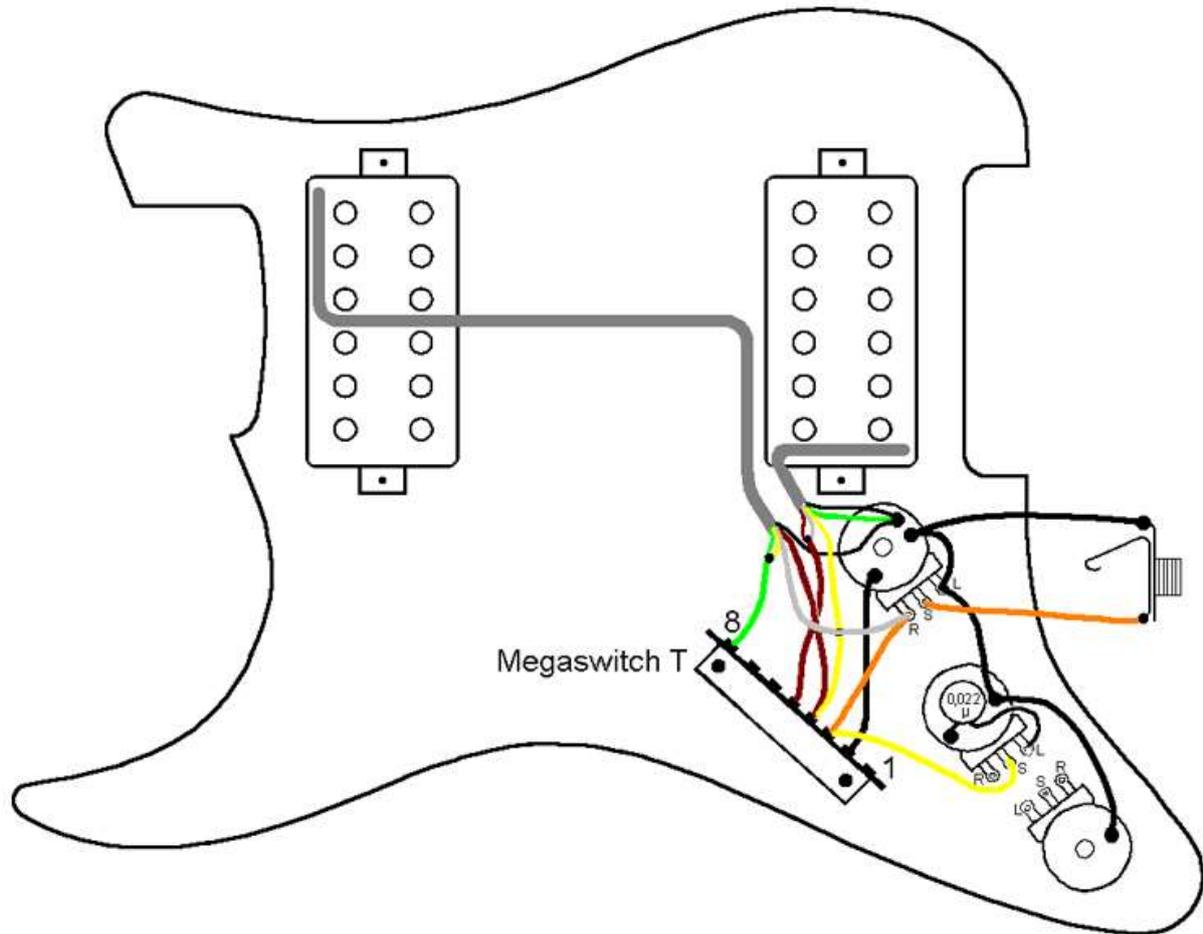
Switching functions:



Electrical switching principle:



Wiring diagram:



### Connections:

Positions

- 1 bridge humbucker
- 2 outer coils in series
- 3 neck humbucker

Connections

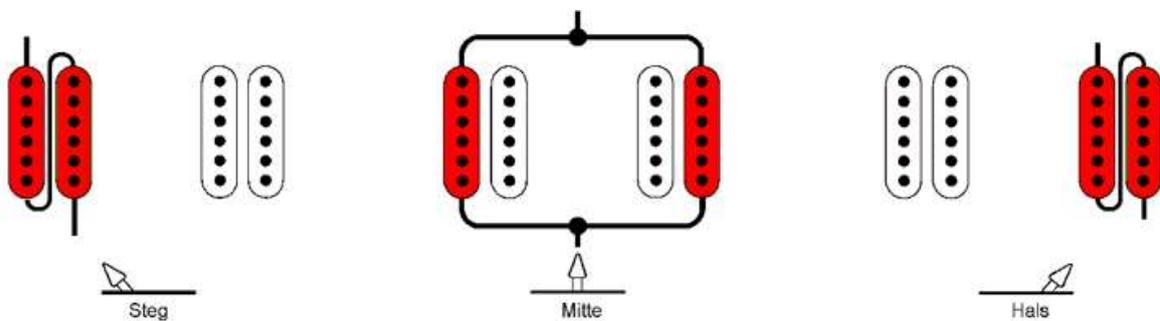
- 1 -
  - 2 ground
  - 3 neck hot wire outer coil and output
  - 4 bridge hot wire inner coil and neck cold wire inner coil
  - 5 bridge hot wire outer coil and cold wire inner coil
  - 6 -
  - 7 -
  - 8 neck cold wire outer coil and hot wire inner coil
- ground: 2, bridge cold wire outer coil

#### HH4. Three positions, in middle position with split Humbucker, outer coils parallel, Megaswitch T

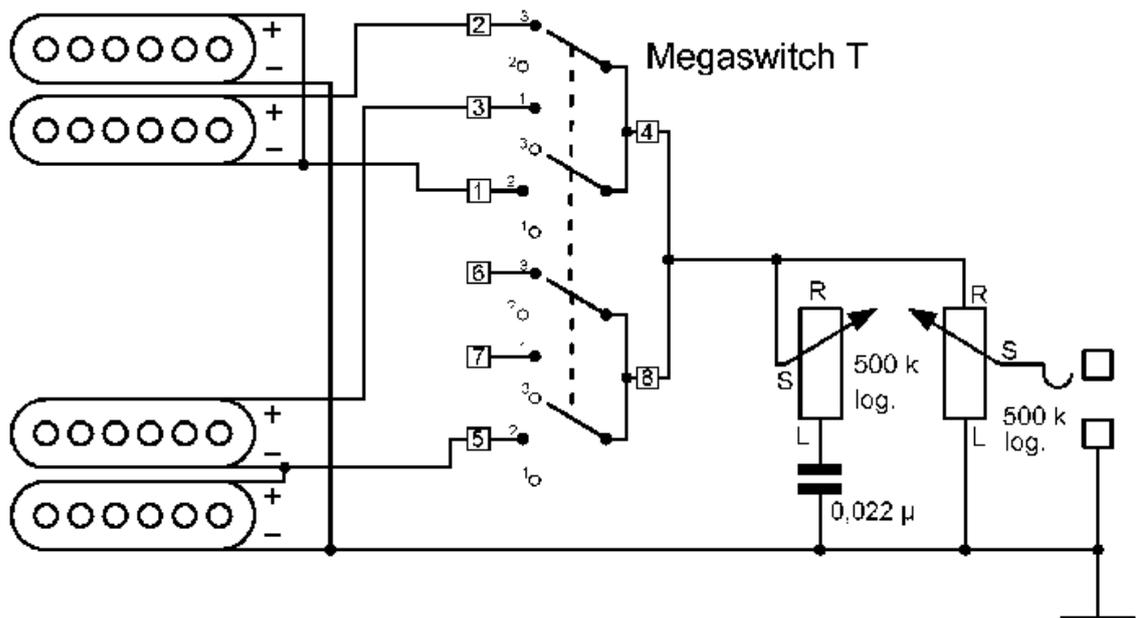
In this version, the middle switching position splits both Humbuckers and the remaining coils (the outer ones in this case) are switched in series. The two inner coils remain open. Compared to non-split parallel switching, this creates a brighter sound. It is also possible to leave both inner coils, and additionally, an outer one in operating mode.

To achieve this, the coils of both Humbuckers must be reversed accordingly. The middle switching position is buzz-free, when a north pole and a south pole coil are in operating mode. In this switching version, just a single tone control is advisable. The Megaswitch T is ideal for this purpose.

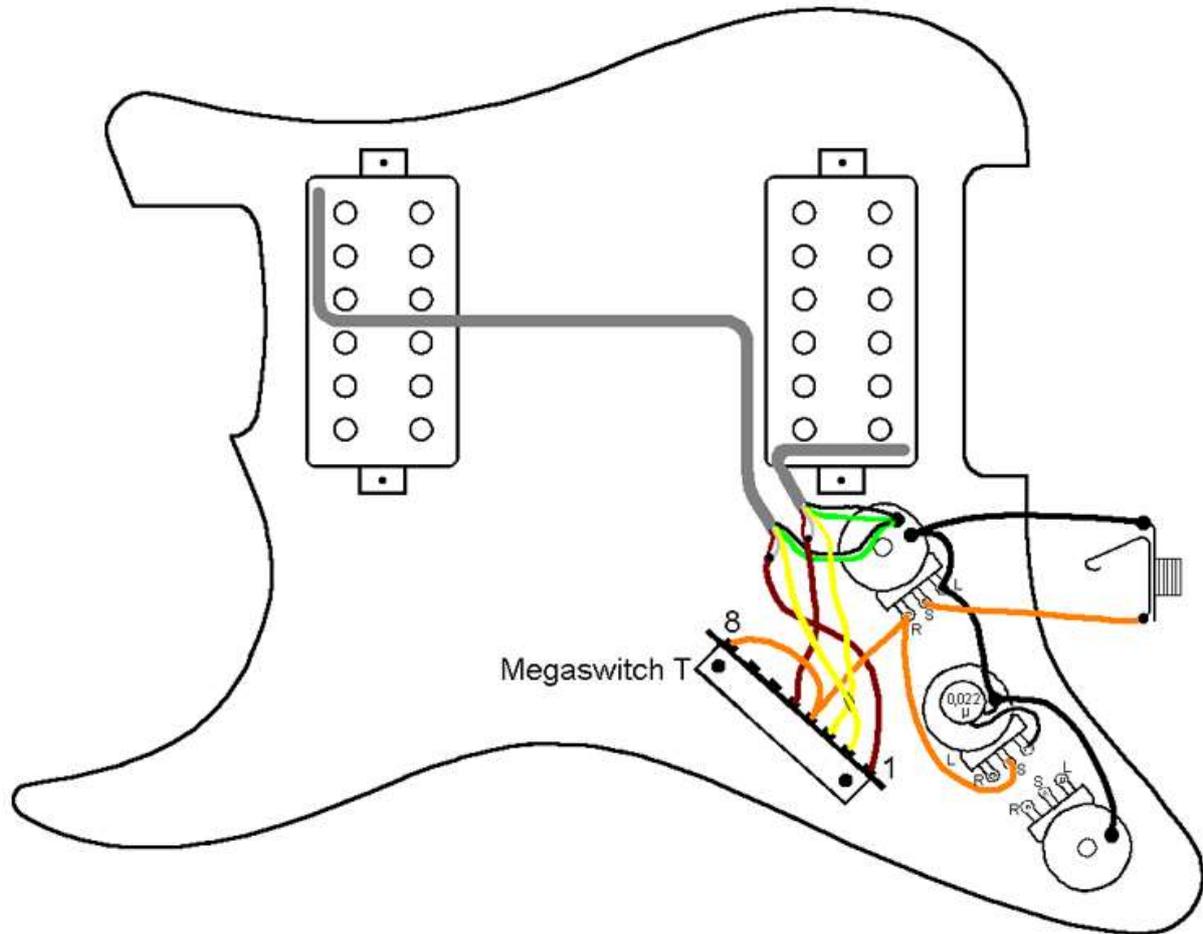
Switching functions:



Electrical switching principle:



Wiring diagram:



### Connections:

Positions

- 1 bridge humbucker
- 2 outer coil parallel
- 3 neck humbucker

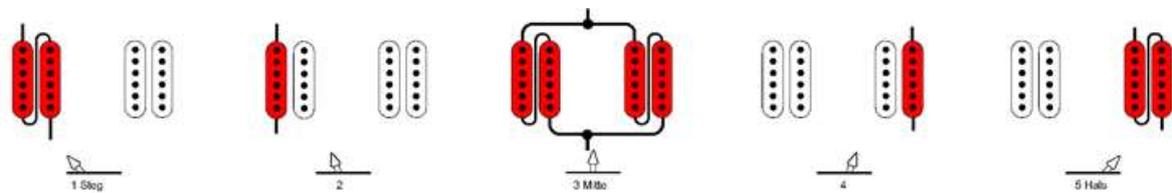
Connections

- 1 neck hot wire outer coil and cold wire inner coil
- 2 neck hot wire inner coil
- 3 bridge hot wire inner coil
- 4 to 8, output
- 5 bridge hot wire outer coil and cold wire inner coil
- 6 -
- 7 -
- 8 to 4, output
- ground: neck and bridge cold wire outer coil

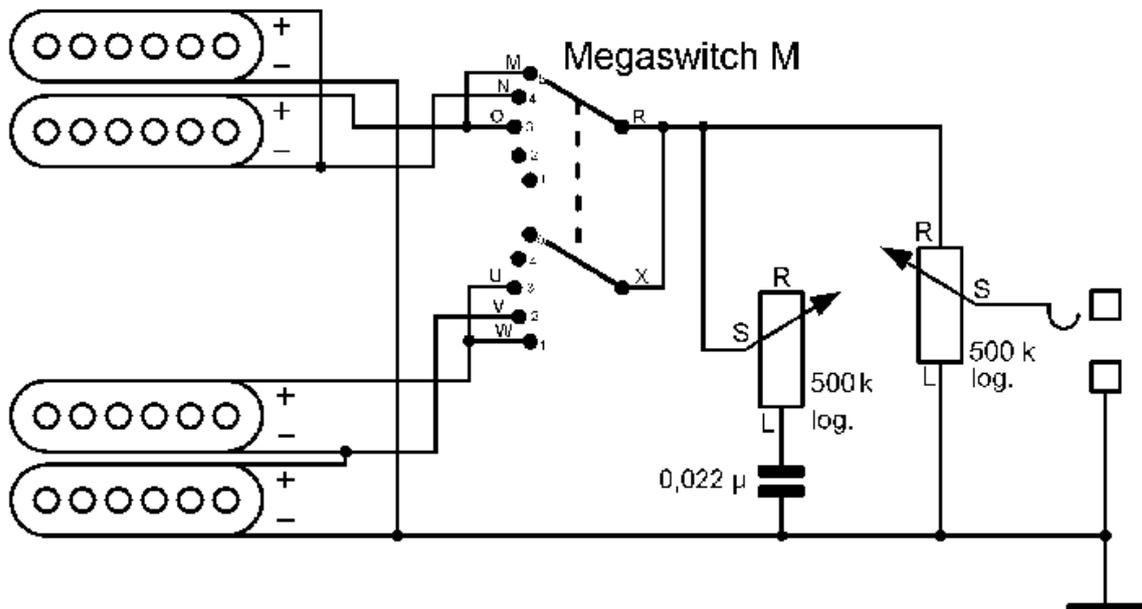
### HH5. Five Positions with Humbucker-splitting in position 2 and 4, Megaswitch M

Here, the Humbuckers are split in position 2 and 4, although the outer coils remain in active mode. By reversing the coil connections, it is also equally possible to configure both inner coils, or one inner and one outer coil in active mode. A buzz-free sound can be obtained by making a north pole and a South Pole coil work together. The Megaswitch M is ideal for this purpose.

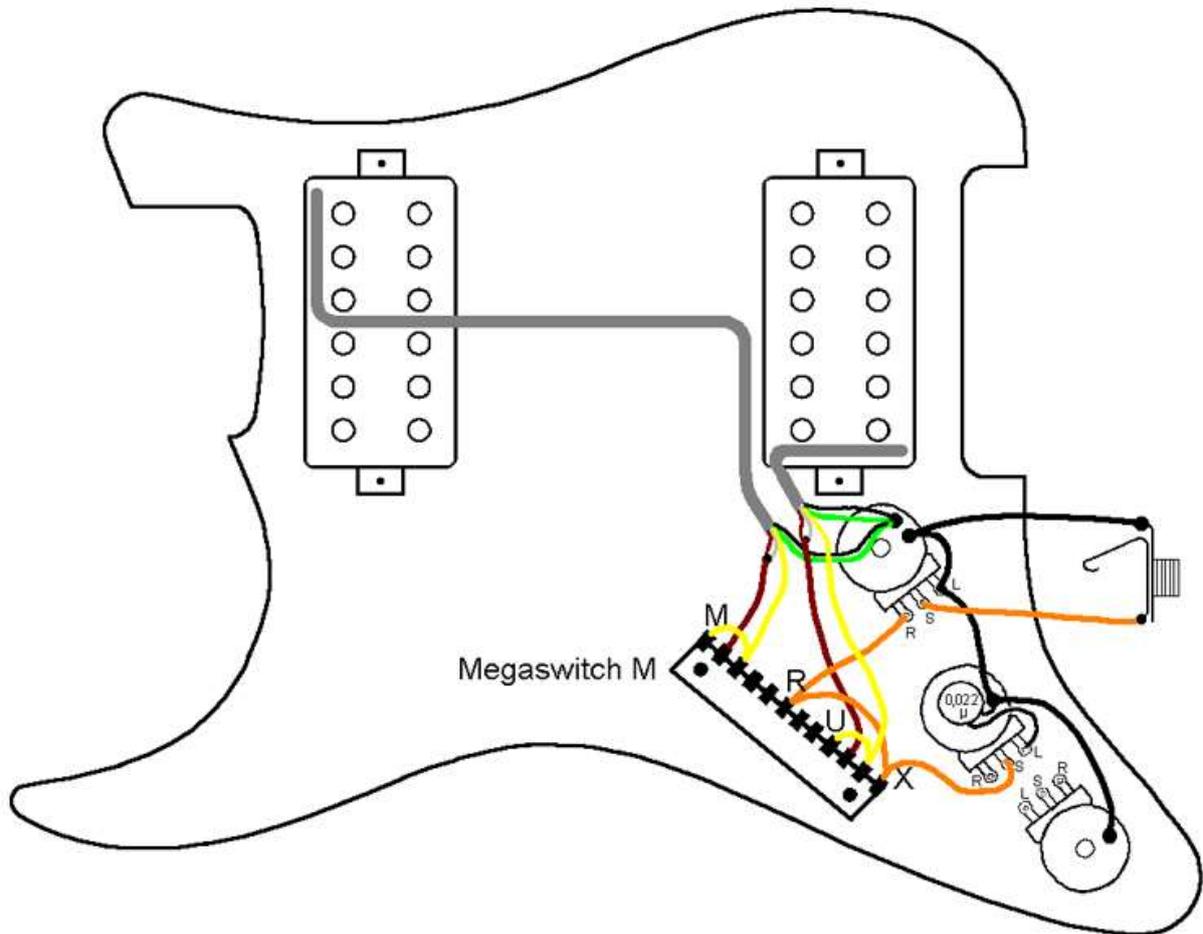
Switching functions:



Electrical switching principle:



Wiring diagram:



### Connections:

Positions

1 bridge humbucker

2 bridge outer coil

3 both humbuckers parallel

4 neck outer coil

5 neck humbucker

## Connections

M to O, neck hot wire inner coil

N neck cold wire inner coil and hot wire outer coil

O to M, neck hot wire inner coil

P -

Q -

R to X, output

S -

T -

U to W, bridge hot wire inner coil

V bridge hot wire outer coil and cold wire inner coil

W to U, bridge hot wire inner coil

X to R, output

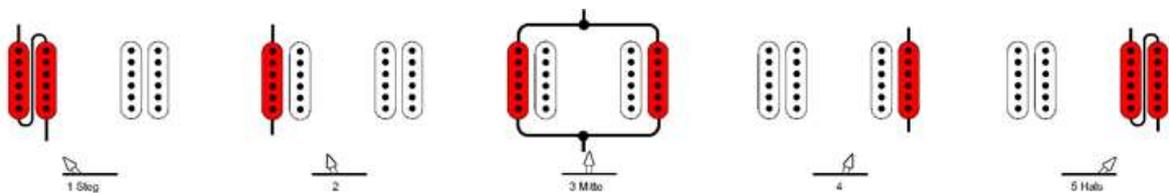
ground: neck and bridge cold wire outer coil

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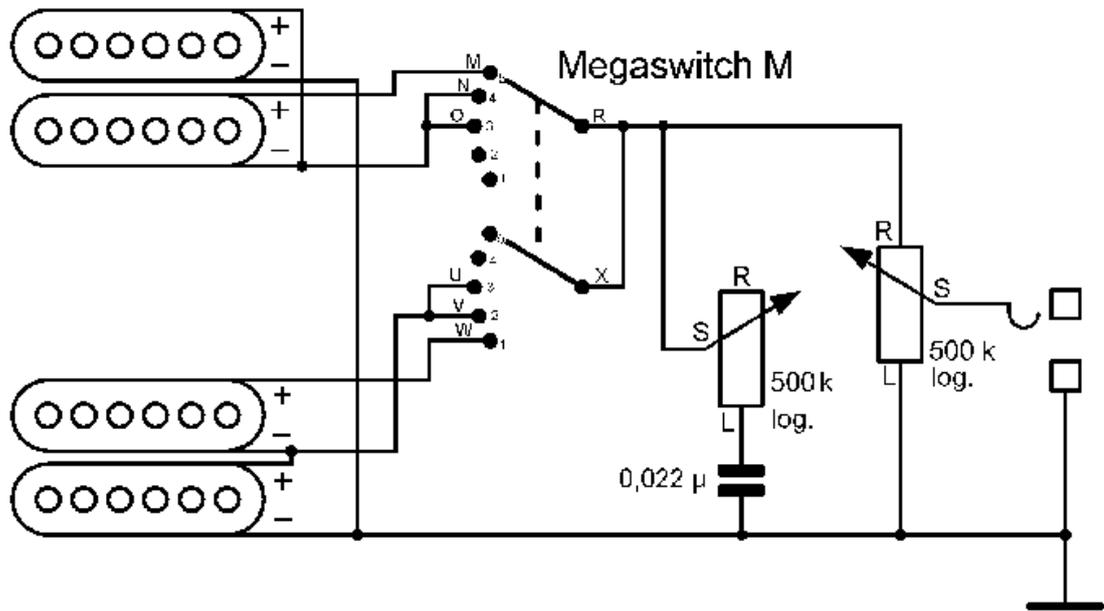
## HH6. Five positions with Humbucker-splitting in position 2, 3 and 4, Megaswitch M

This is a variation on the HH5. Here, both Humbuckers are split in position 3. The sound is brighter as a result. By reversing the coil connections, it is equally possible to make both inner coils or an inner coil and an outer one to remain in operating mode. A buzz-free sound can be obtained when a north pole coil and a south pole coil remain active. The Megaswitch M is ideal for this purpose.

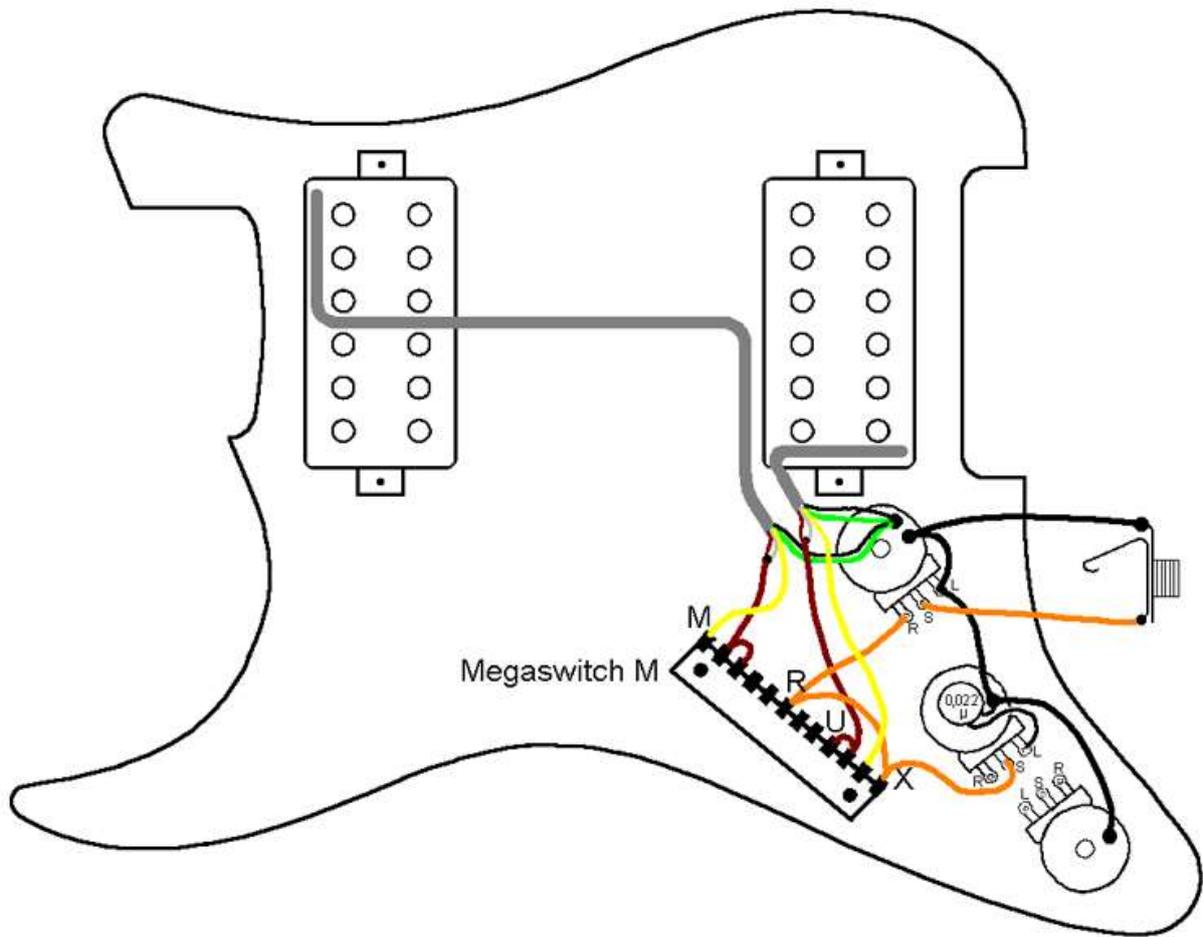
Switching functions:



Electrical switching principle:



Wiring diagram:



## Connections:

### Positions

- 1 bridge humbucker
- 2 bridge outer coil
- 3 outer coils parallel
- 4 neck outer coil
- 5 neck humbucker

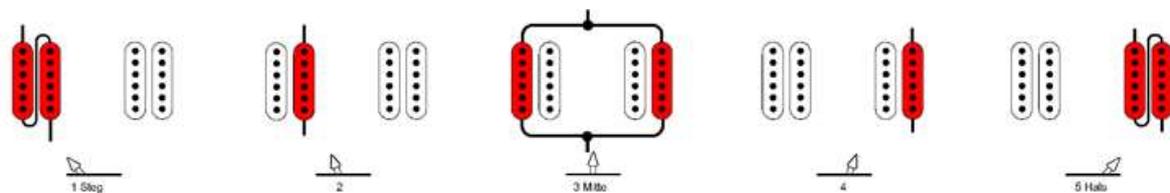
### Connections

- M neck hot wire inner coil
- N to O, neck cold wire inner coil and hot wire outer coil
- O to N, neck cold wire inner coil and hot wire outer coil
- P -
- Q -
- R to X, output
- S -
- T -
- U to V, bridge hot wire outer coil and cold wire inner coil
- V to U, bridge hot wire outer coil and cold wire inner coil
- W bridge hot wire inner coil
- X to R, output
- ground: neck and bridge cold wire outer coils

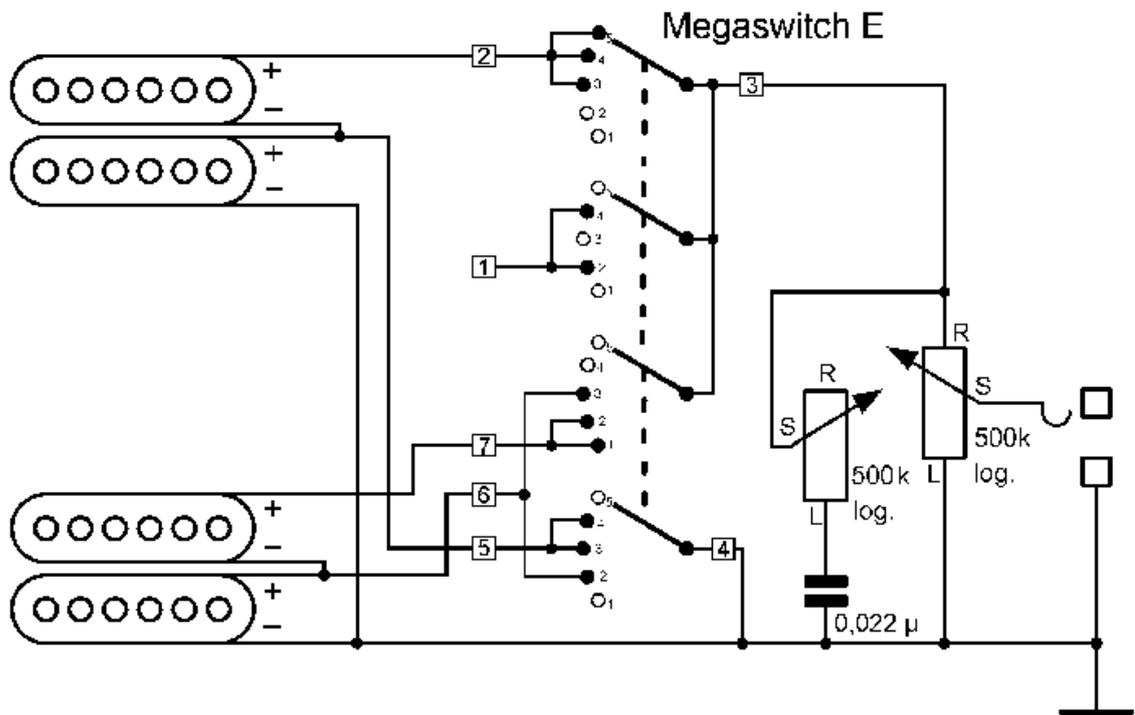
## HH7. Five positions with Humbucker-splitting in position 2, 3 and 4, Megaswitch E

The HH7 is quite similar to the HH6, except that it features the Megaswitch E. Here too, by reversing the coil connections, a different coil can be made to remain active when the Humbucker is split. For a buzz-free sound, one north pole coil and one south pole coil must be in operating mode.

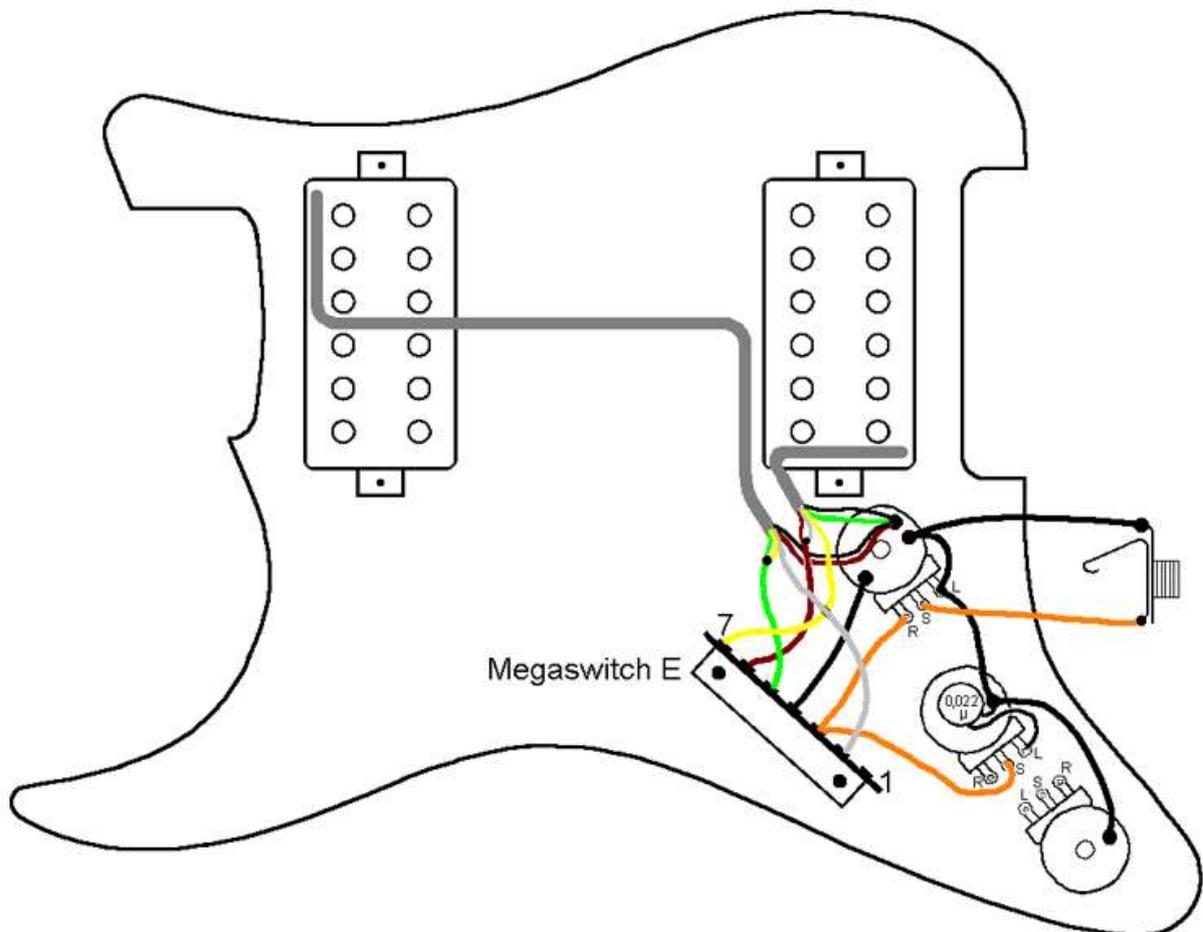
### Switching functions:



Electrical switching principle:



Wiring diagram:



## Connections:

Positions

- 1 bridge humbucker
- 2 bridge inner coil
- 3 outer coils parallel
- 4 neck outer coil
- 5 neck humbucker

Connections

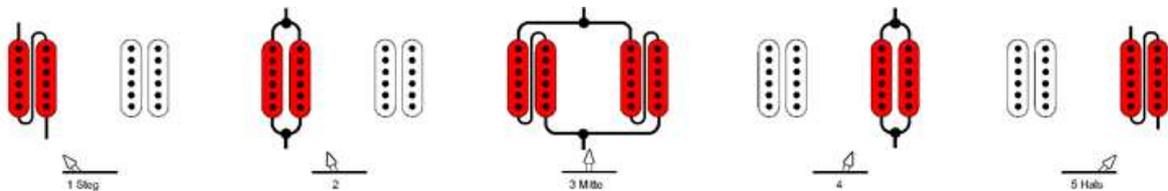
- 1 -
- 2 neck hot wire outer coil
- 3 output
- 4 ground
- 5 neck hot wire inner coil and cold wire outer coil
- 6 bridge hot wire outer coil and cold wire inner coil
- 7 bridge hot wire inner coil
- ground: 4, bridge cold wire outer coil, neck cold wire inner coil

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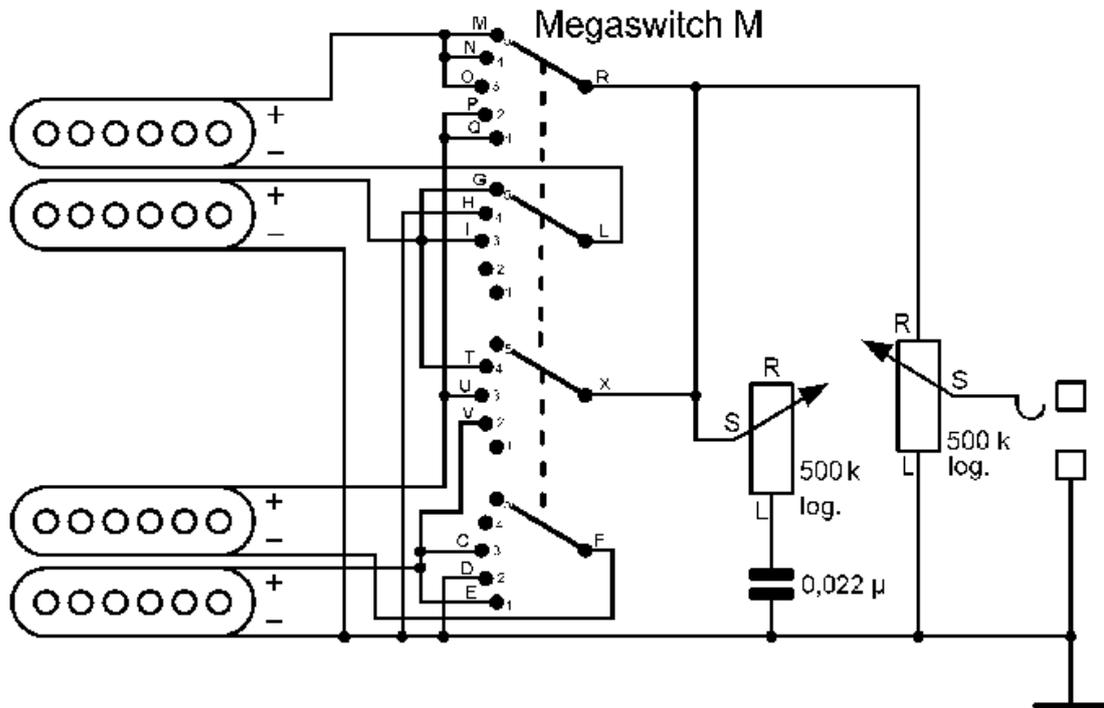
## HH8. Five positions with parallel switching in position 2 and 4, Megaswitch M

Here, the coils of the Humbucker are switched parallel in positions 2 and 4. All positions are buzz-free. The Megaswitch M is ideal for this purpose.

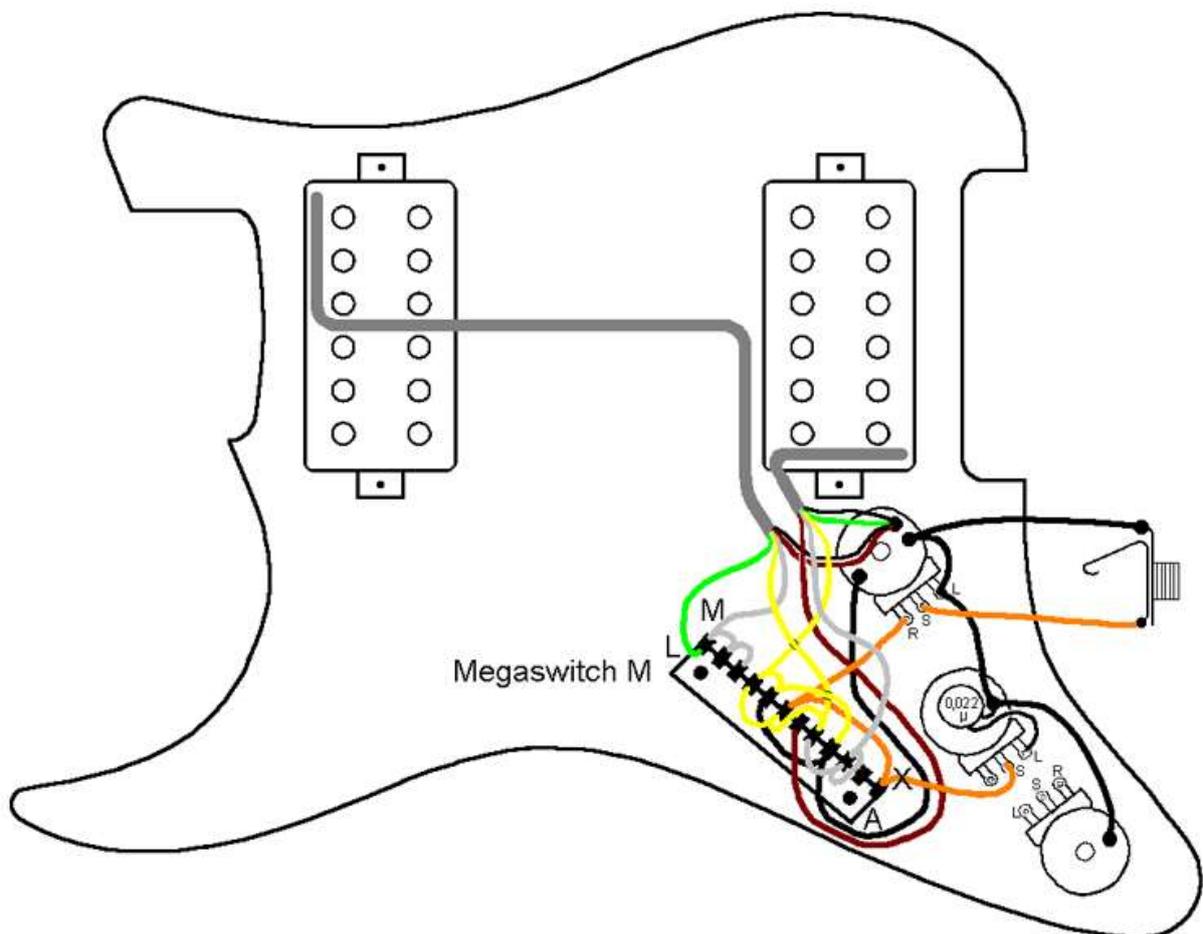
Switching functions:



Electrical switching principle:



Wiring diagram:



## Connections:

### Positions

- 1 bridge humbucker in series
- 2 bridge humbucker parallel
- 3 both humbuckers (each in series) parallel
- 4 neck humbucker parallel
- 5 neck humbucker in series

### Connections

A -

B -

C to E and V, bridge hot wire outer coil

D to H and ground

E to C and V, bridge hot wire outer coil

F bridge cold wire inner coil

G to I and T, neck hot wire inner coil

H to D and ground

I to G and T, neck hot wire inner coil

J -

K -

L neck cold wire outer coil

M to N and O, neck hot wire outer coil

N to M and O neck hot wire outer coil

O to N and M, neck hot wire outer coil

P to Q and U, bridge hot wire inner coil

Q to P and U, bridge hot wire inner coil

R to X and output

S -

T to G and I, neck hot wire inner coil

U to P and Q, bridge hot wire inner coil

V to C and E, bridge hot wire outer coil

W -

X to R and output

ground: D, H, neck cold wire inner coil, bridge cold wire outer coil

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