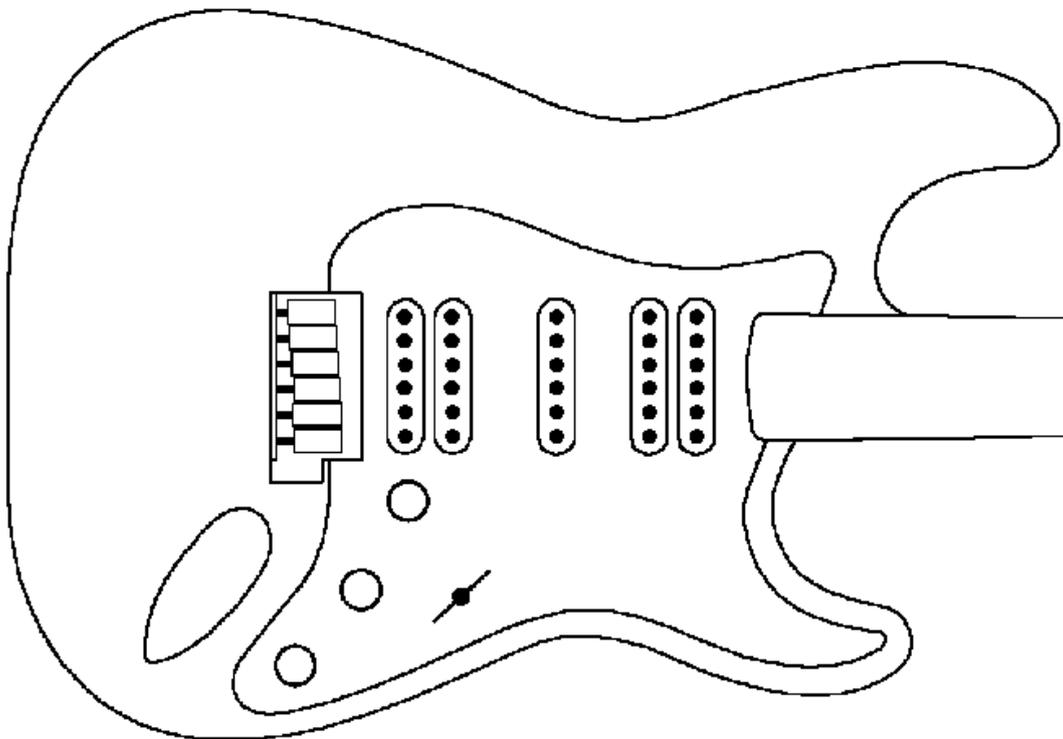


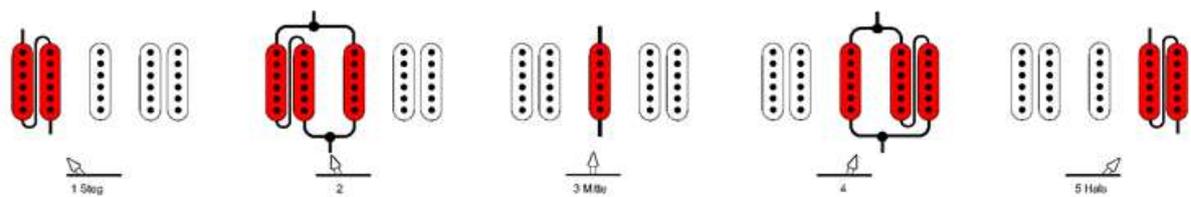
# HSH

HSH: Humbucker – Single coil – Humbucker

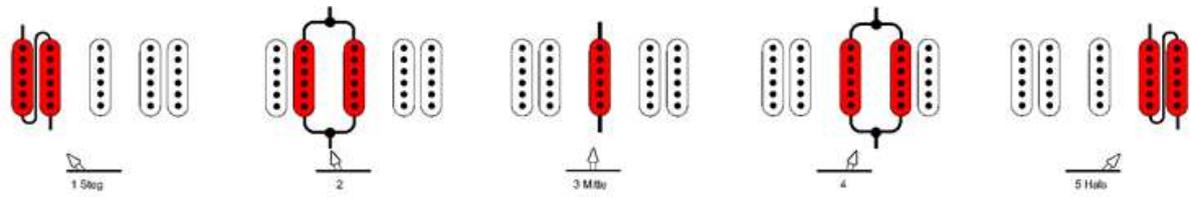
## Overview



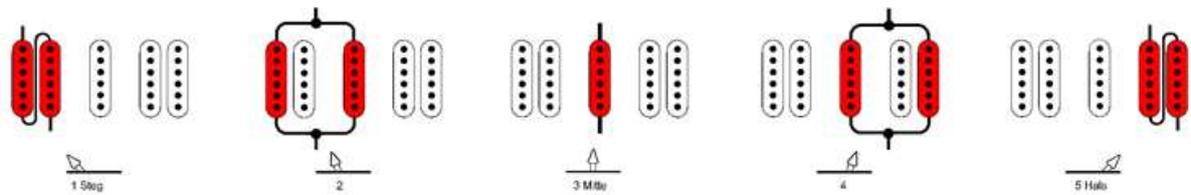
HSH1. Five positions, no Humbucker splitting, Megaswitch S



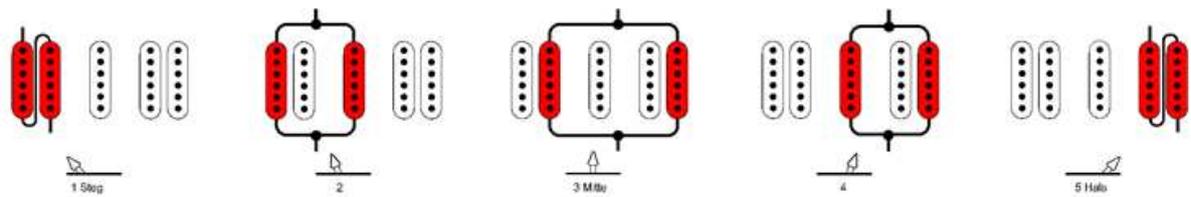
**HSH2. Five positions with Humbucker splitting, inner coils, Megaswitch S**



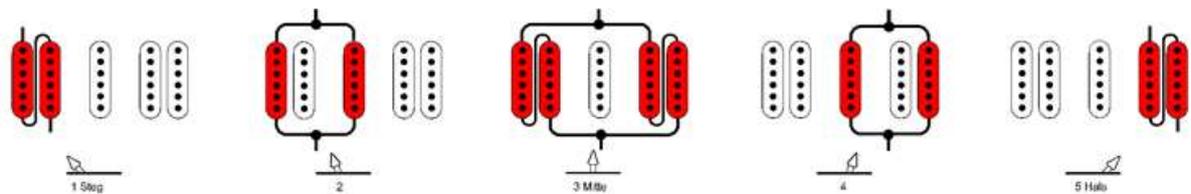
**HSH3. Five positions with Humbucker splitting, outer coils, Megaswitch S**



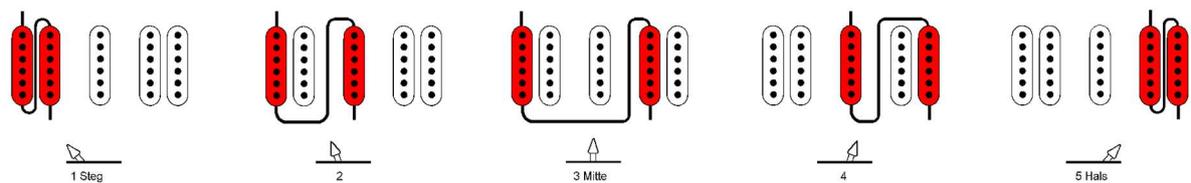
**HSH4. Five positions with Humbucker splitting in positions 2, 3 and 4, Megaswitch E**



**HSH5. Five positions with Humbucker splitting in positions 2 and 4, Megaswitch E+**



**HSH6. Five positions with Humbucker splitting in positions 2, 3 and 4, Megaswitch M**

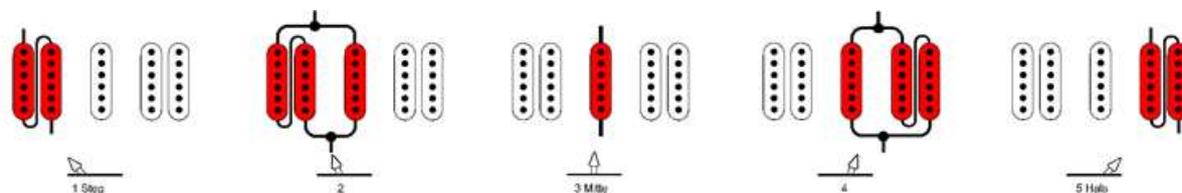


## Detail drawing

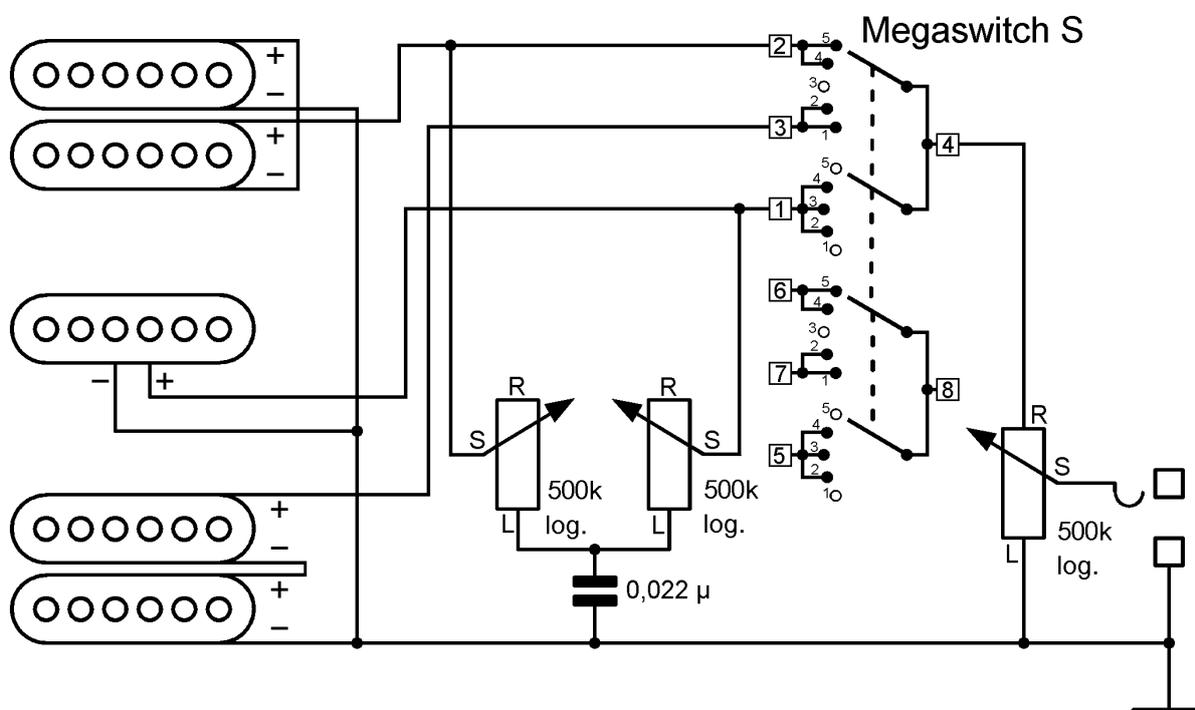
### HSH1. Five positions, no Humbucker splitting, Megaswitch S

This is the simplest switching system for guitars with two Humbuckers and a single coil located between them. Here, the Humbuckers are not split and the switching functions are as usual. The Megaswitch S is ideal for this application. A version with two tone controls is illustrated. If only one is to be used, the wiper should be connected to connection 4 of the Megaswitch.

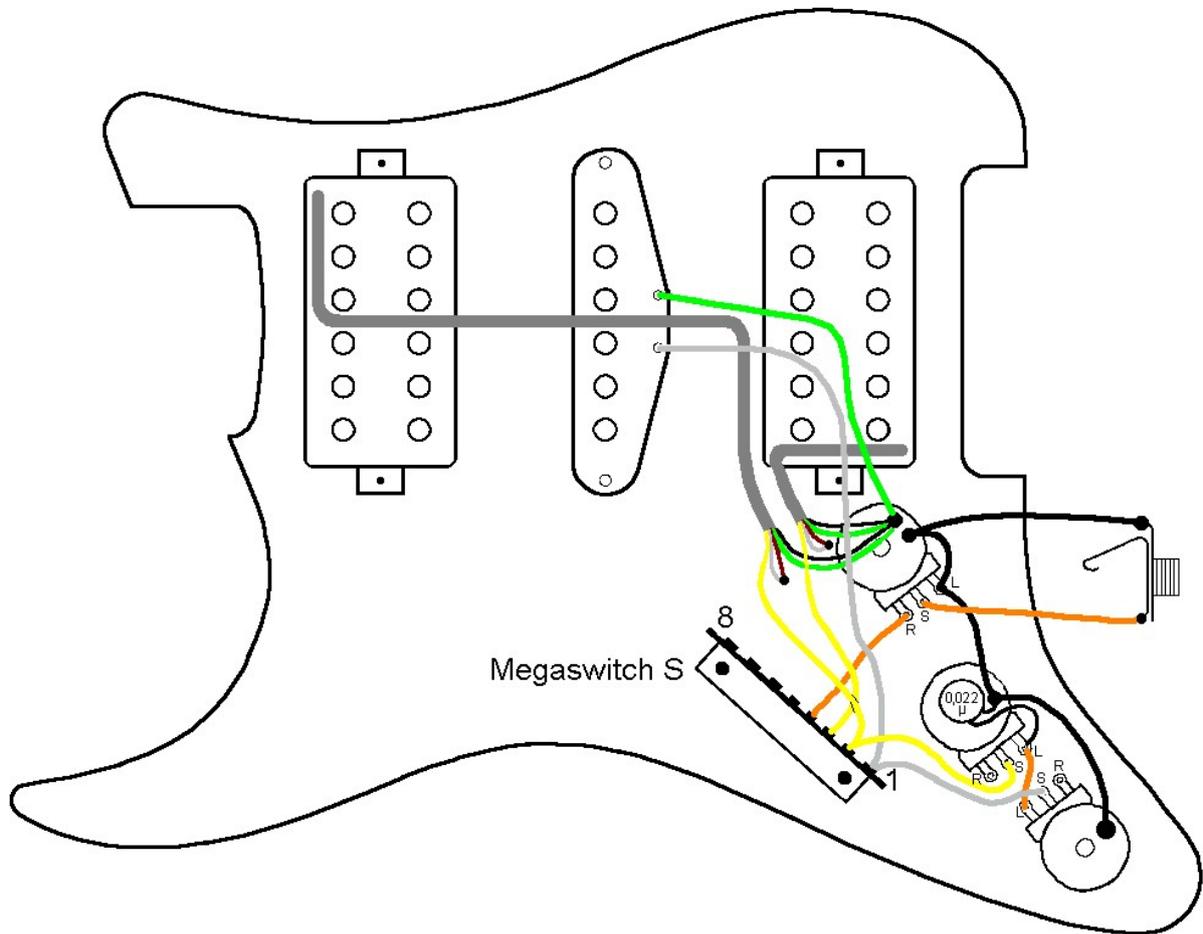
Switching function:



Electrical switching principle:



Wiring diagram:



### Connections:

Positions

1 bridge humbucker

2 bridge humbucker and mid parallel

3 mid

4 mid and neck humbucker parallel

5 neck humbucker

## Connections

1 mid hot wire

2 neck hot wire

3 bridge hot wire

4 output

5 -

6 -

7 -

8 -

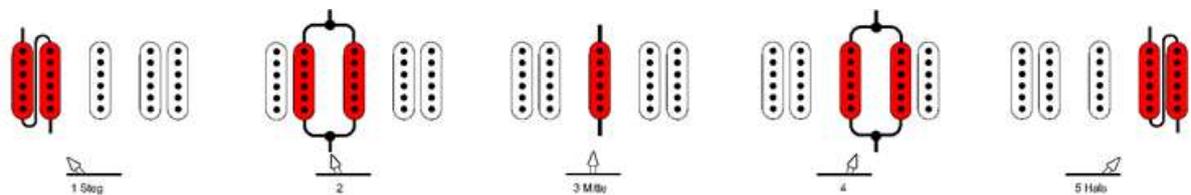
ground: all three cold wires

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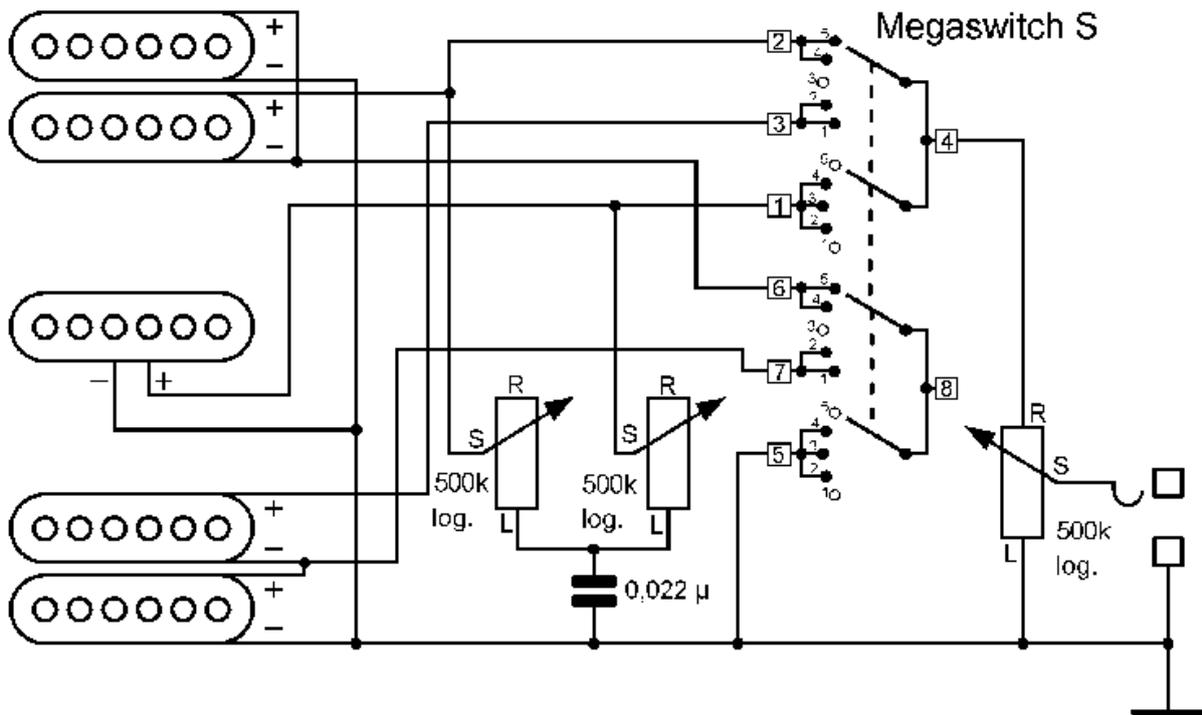
## HSH2. Five positions with Humbucker splitting, inner coils, Megaswitch S

This switching system is for guitars with 2 Humbuckers and a single coil between them. The Humbuckers are split in positions 2 and 4, while the inner coils remain active. The outer coils are short-circuited. In the event that a buzz-free sound is required in positions 1, 2, 4 and 5, the following magnetic polarity is required: NS-N-SN or SN-S-NS. The Megaswitch S is ideal for this application. A version with two tone controls is illustrated here. If only one tone control is used, its wiper should be connected to connection 4 of the Megaswitch.

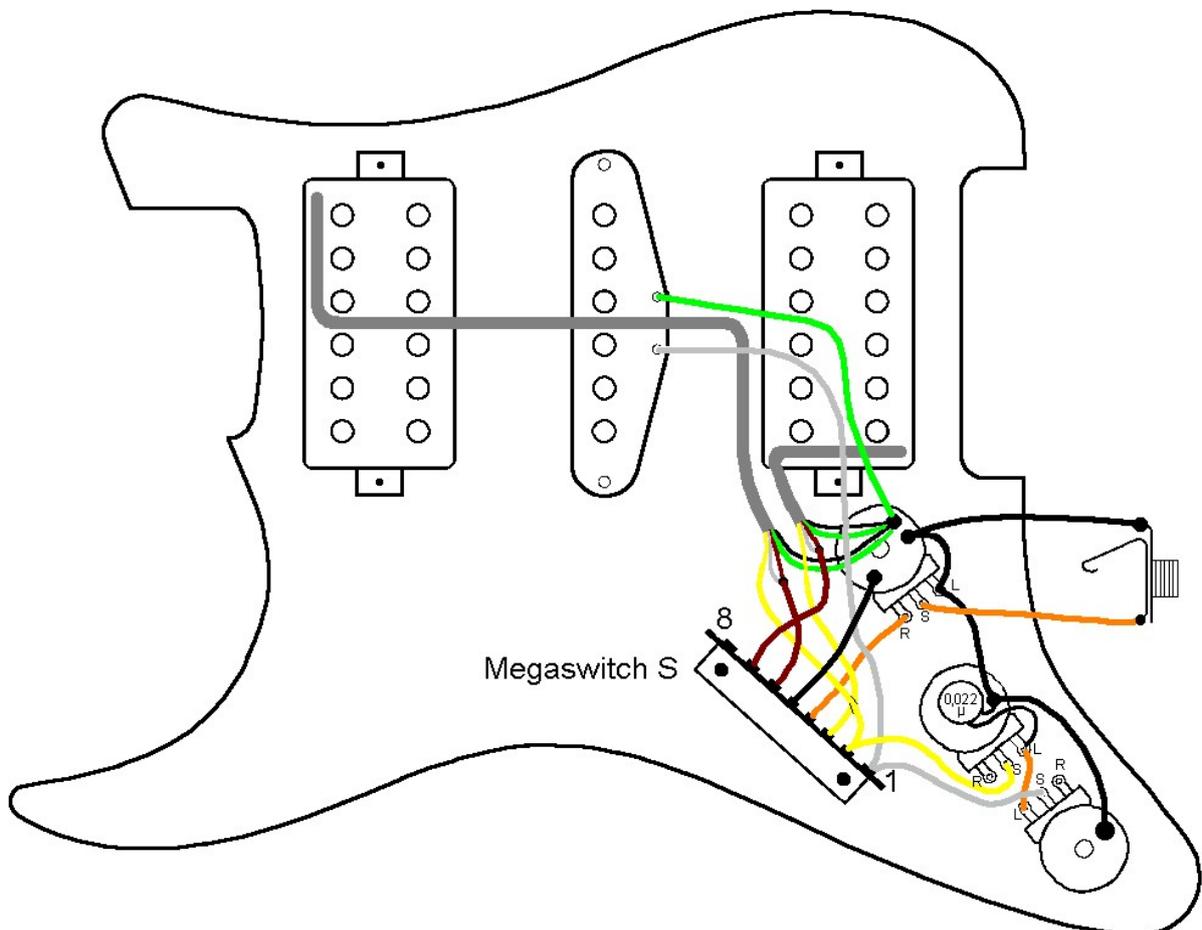
Switching function:



Electrical switching principle:



Wiring diagram:



## Connections:

### Positions

- 1 bridge humbucker
- 2 bridge inner coil and mid parallel
- 3 mid
- 4 mid and neck inner coil parallel
- 5 neck humbucker

### Connections

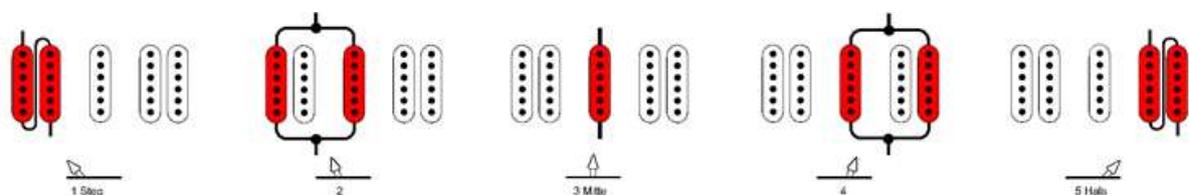
- 1 mid hot wire
  - 2 neck hot wire inner coil
  - 3 bridge hot wire inner coil
  - 4 output
  - 5 ground
  - 6 neck cold wire inner coil and hot wire outer coil
  - 7 bridge cold wire inner coil and hot wire outer coil
  - 8 -
- ground: 5, mid cold wire, both outer humbucker coils cold wires

## HSH3. Five positions with Humbucker splitting, outer coils, Megaswitch S

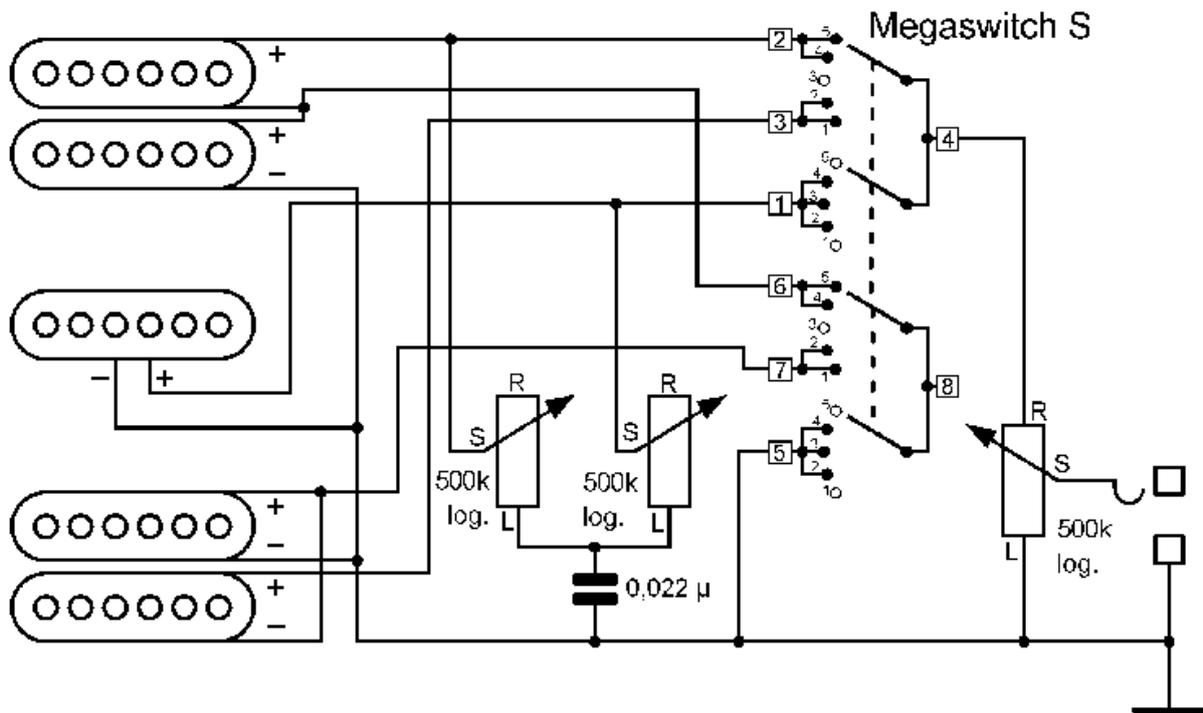
This switching system is for guitars with 2 Humbuckers and a single coil between them. The Humbuckers are split in positions 2 and 4. Contrary to the HSH2, the outer coils remain active and the inner coils are short-circuited. In the event that a buzz-free sound is required in positions 1, 2, 4 and 5, the following magnetic polarity is required: NS-S-SN or SN-N-NS. The Megaswitch S is ideal for this application.

The outer coils are short-circuited. In the event that a buzz-free sound is required in positions 1, 2, 4 and 5, the following magnetic polarity is required: NS-N-SN or SN-S-NS. The Megaswitch S is ideal for this application. A version with two tone controls is illustrated here. If only one tone control is used, its wiper should be connected to connection 4 of the Megaswitch.

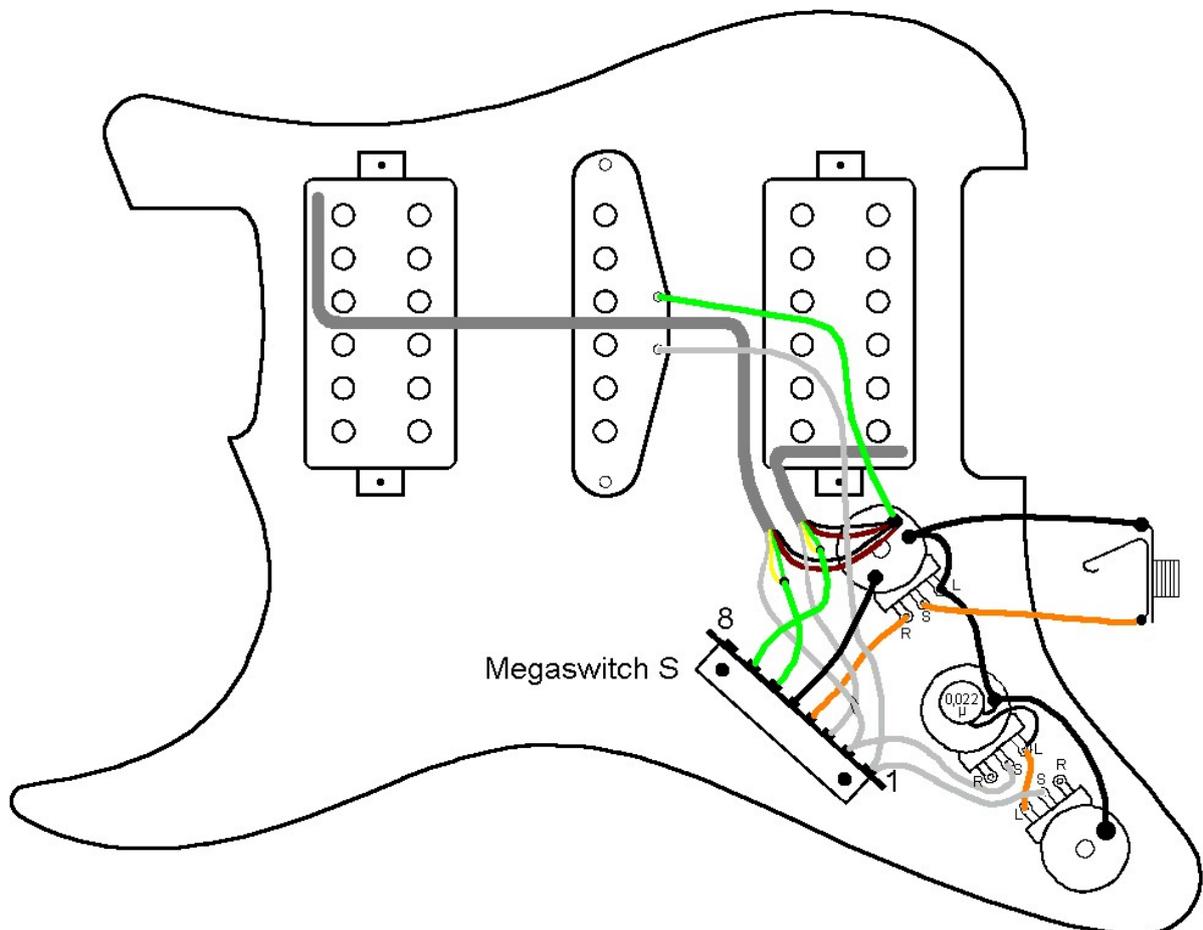
Switching function:



Electrical switching principle:



Wiring diagram:



## Connections:

### Positions

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

### Connections

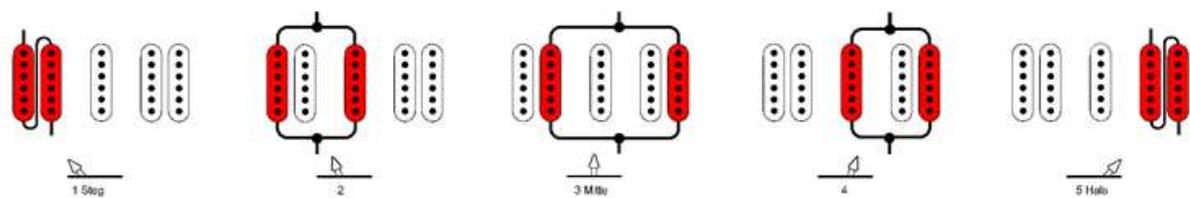
- 1 mid hot wire
  - 2 neck hot wire outer coil
  - 3 bridge hot wire outer coil
  - 4 output
  - 5 ground
  - 6 neck hot wire inner coil and cold wire outer coil
  - 7 bridge hot wire inner coil and cold wire outer coil
  - 8 -
- ground: 3, mid cold wire, both inner humbucker coils cold wires

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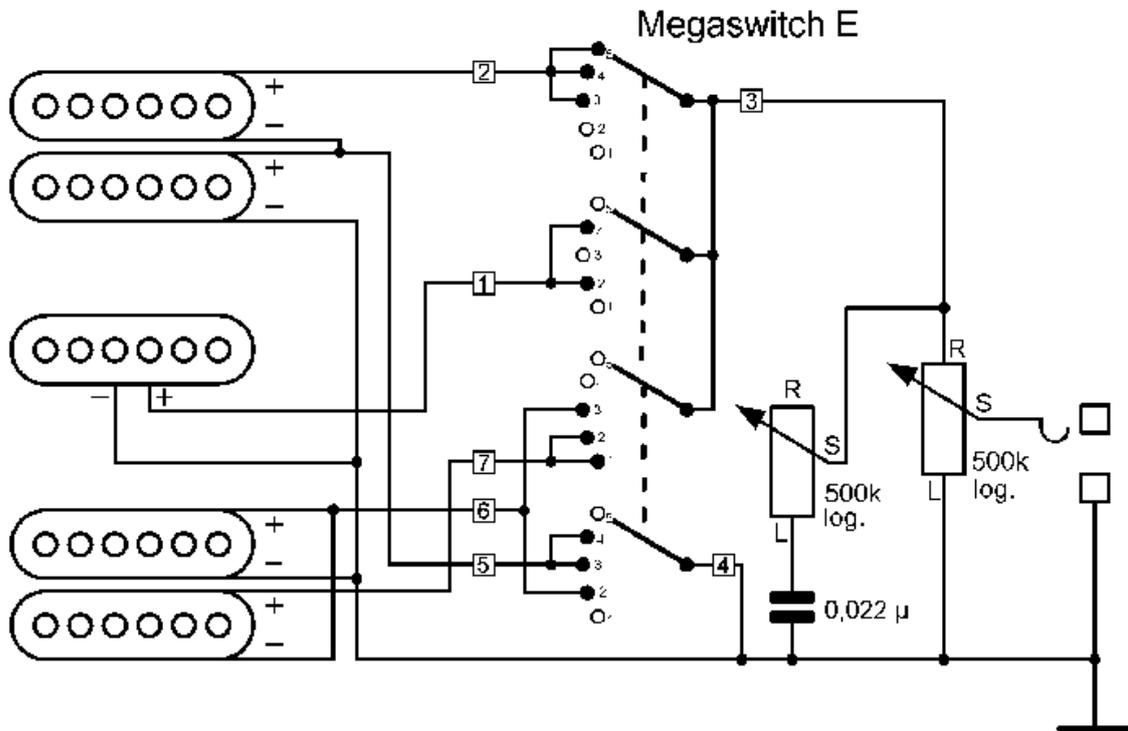
## HSH4. Five positions with Humbucker splitting in positions 2, 3 and 4, Megaswitch E

This is a variation of the HSH3 switching system. The positions 1, 2, 4 and 5 are as usual and in position 3, the inner coil of the bridge Humbucker and the outer coil of the neck Humbucker are switched parallel. This results in sounds that are similar to a Telecaster, when both pickups are in operating mode. A buzz-free sound can be obtained in all positions; the following magnetic polarity is required - NS-S-SN or SN-N-NS. Here, Megaswitch E is in use. In this switching system, just a single tone control is advisable.

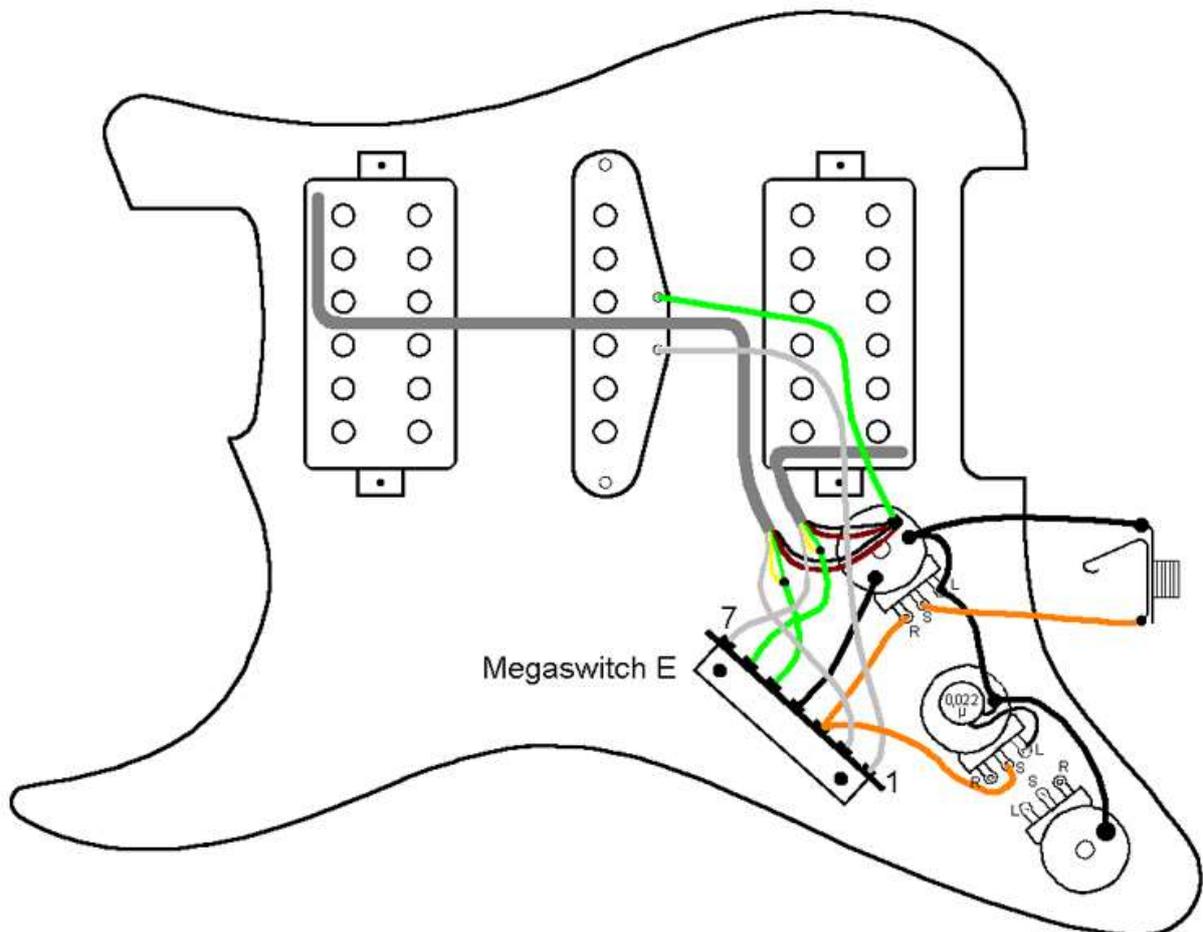
Switching function:



Electrical switching principle:



Wiring diagram:



## Connections:

Positions

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

Connections

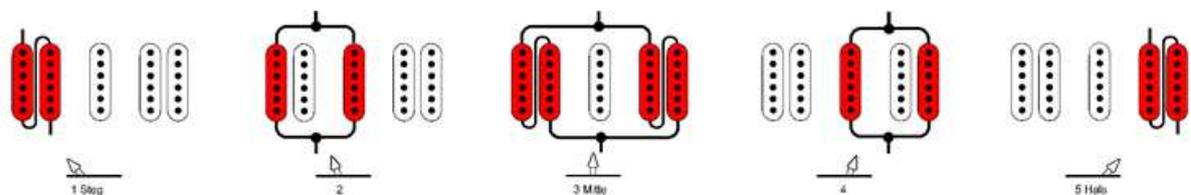
- 1 mid hot wire
  - 2 neck hot wire outer coil
  - 3 output
  - 4 ground
  - 5 neck hot wire inner coil and cold wire outer coil
  - 6 bridge hot wire inner coil and cold wire outer coil
  - 7 bridge hot wire outer coil
- ground: 4, mid cold wire and inner humbucker coils cold wires

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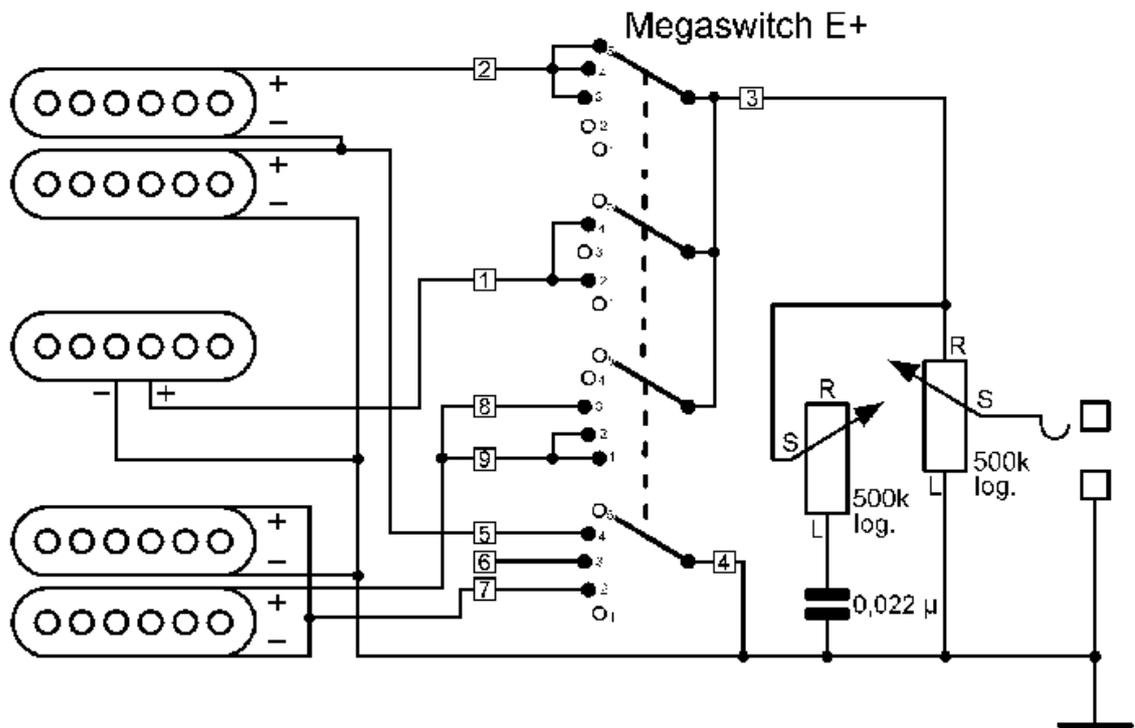
## HSH5. Five positions with Humbucker splitting in positions 2 and 4, Megaswitch E+

This is a variation of the HSH4 switching system. The positions 1, 2, 4 and 5 are as usual and in position 3, both Humbuckers are switched parallel. This results in a fuller, louder sound than splitting. A buzz-free sound can be obtained in all positions; the following magnetic polarity is required - NS-S-SN or SN-N-NS. The Megaswitch E+ is ideal for this purpose.

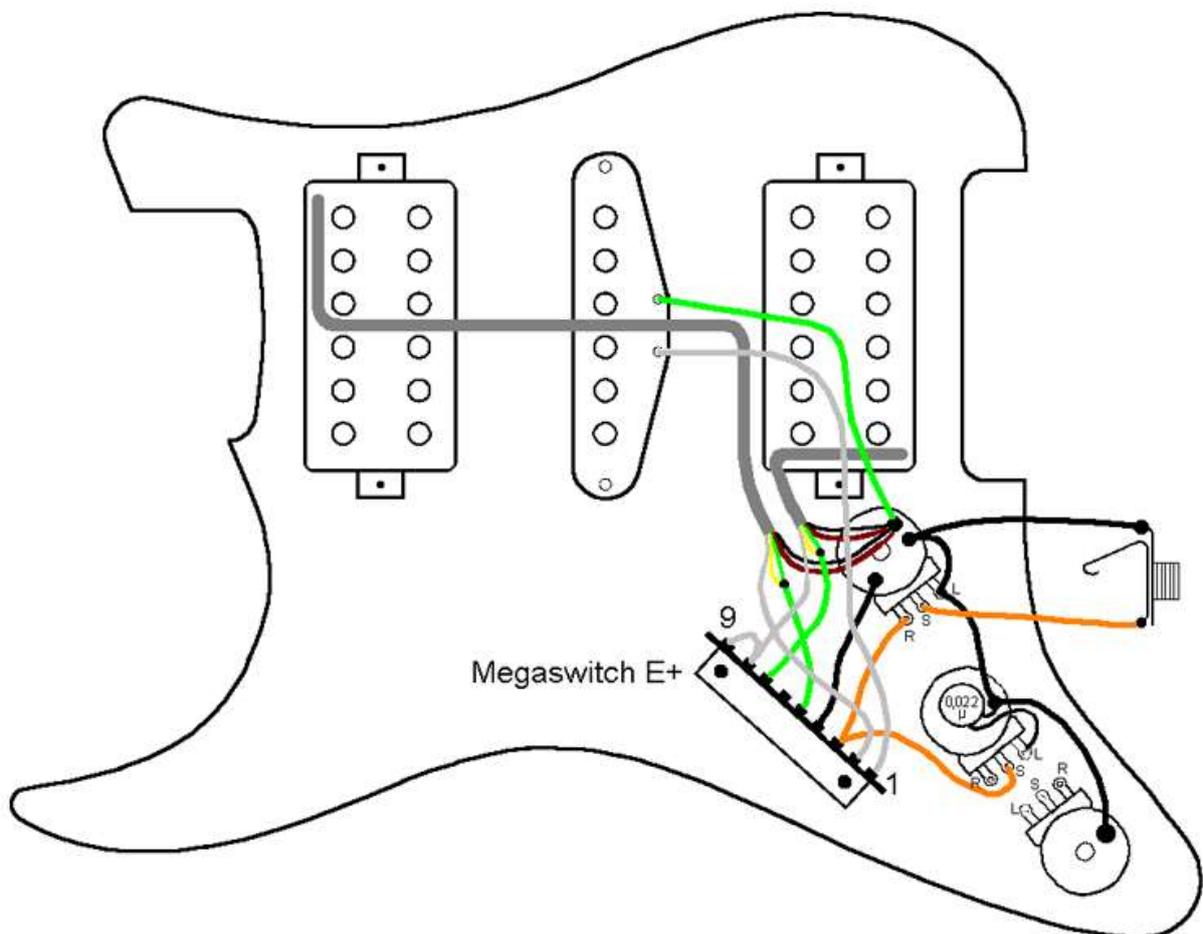
Switching function:



Electrical switching principle:



Wiring diagram:



## Connections:

### Positions

- 1 bridge humbucker
- 2 bridge outer coil and mid parallel
- 3 both humbuckers parallel
- 4 mid and neck outer coil parallel
- 5 neck humbucker

### Connections

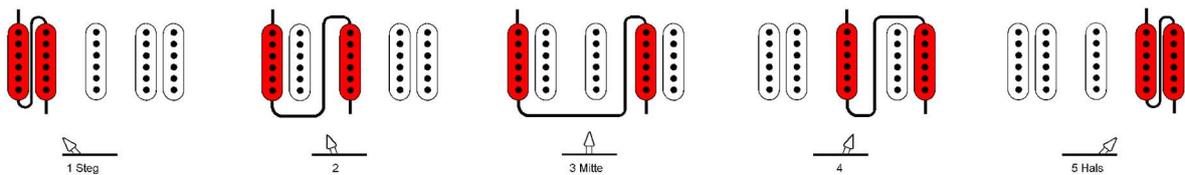
- 1 mid hot wire
- 2 neck hot wire outer coil
- 3 output
- 4 ground
- 5 neck hot wire inner coil and cold wire outer coil
- 6 -
- 7 bridge cold wire outer coil and hot wire inner coil
- 8 to 9, bridge hot wire outer coil
- 9 to 8, bridge hot wire outer coil
- ground: 4, mid cold wire, both innere humbucker coils cold wires

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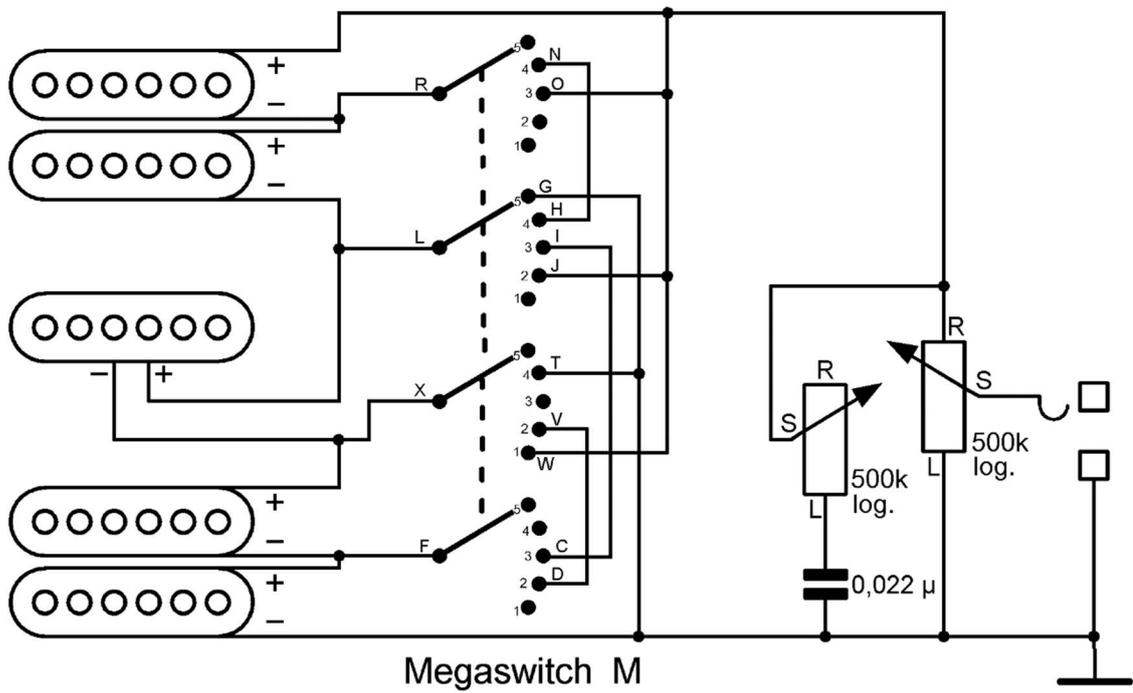
## HSH6. Five positions with Humbucker splitting in positions 2, 3 and 4, Megaswitch M

In this switching system two coils are connected in series at a time. All positions are free of hum when the magnetic polarity is NS-S-SN or SN-N-NS. Here a Megaswitch M is in use.

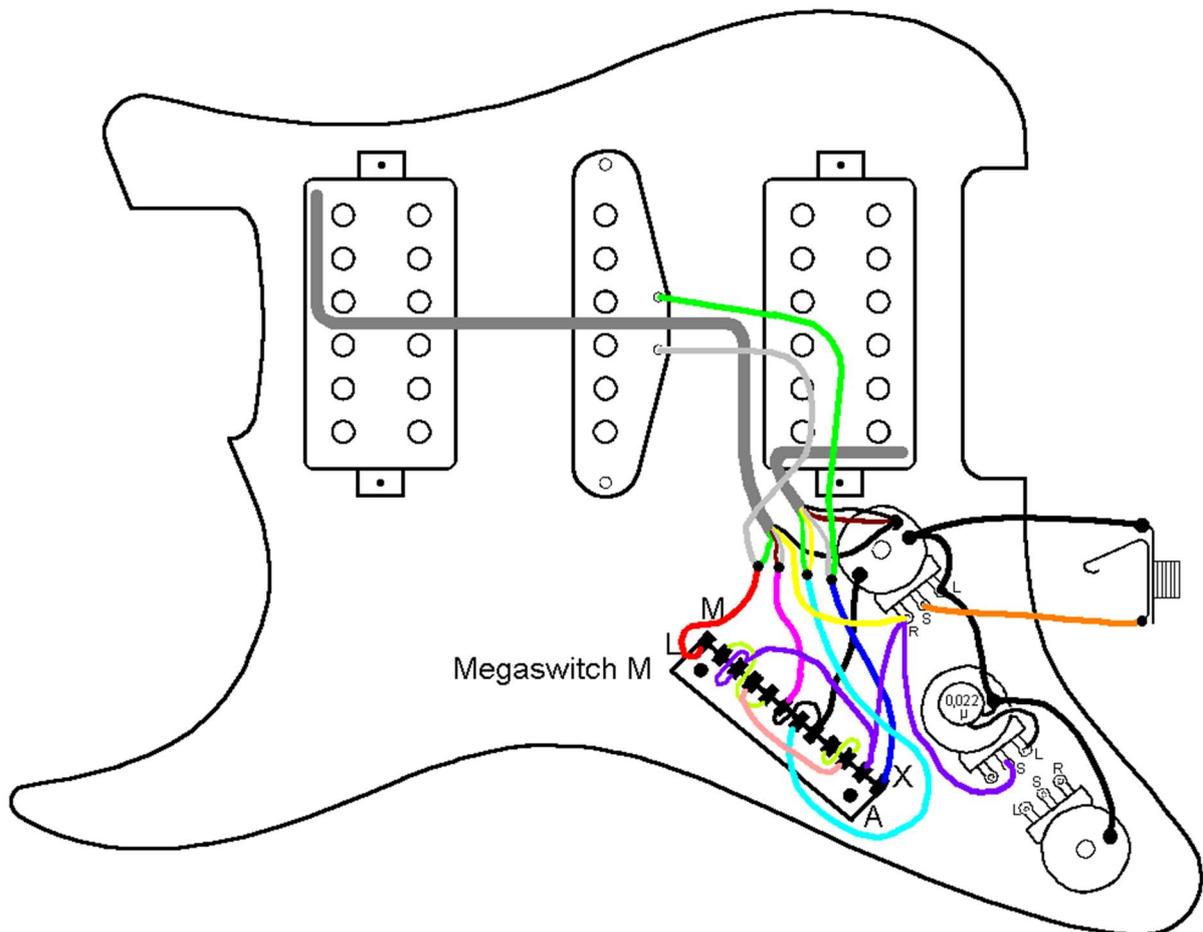
Switching function:



Electrical switching principle:



Wiring diagram:



## Connections:

### Positions

- 1 bridge humbucker
- 2 bridge outer coil and mid in series
- 3 bridge outer coil and neck inner coil in series
- 4 mid and neck outer coil in series
- 5 neck humbucker

### Connections

- A -
- B -
- C to I
- D to V
- E -
- F bridge hot wire outer coil and cold wire inner coil
- G to T and ground
- H to N
- I to C
- J to O, W, neck hot wire outer coil and output
- K -
- L mid hot wire and neck cold wire inner coil
- M -
- N to HH
- O to J and W, neck hot wire outer coil and output
- P -
- Q -
- R neck hot wire inner coil and cold wire outer coil
- S -
- T to G and ground
- U -
- V to D
- W to J, O, neck hot wire outer coil and output
- X bridge hot wire inner coil, mid cold wire
- ground: G, T, bridge cold wire outer coil