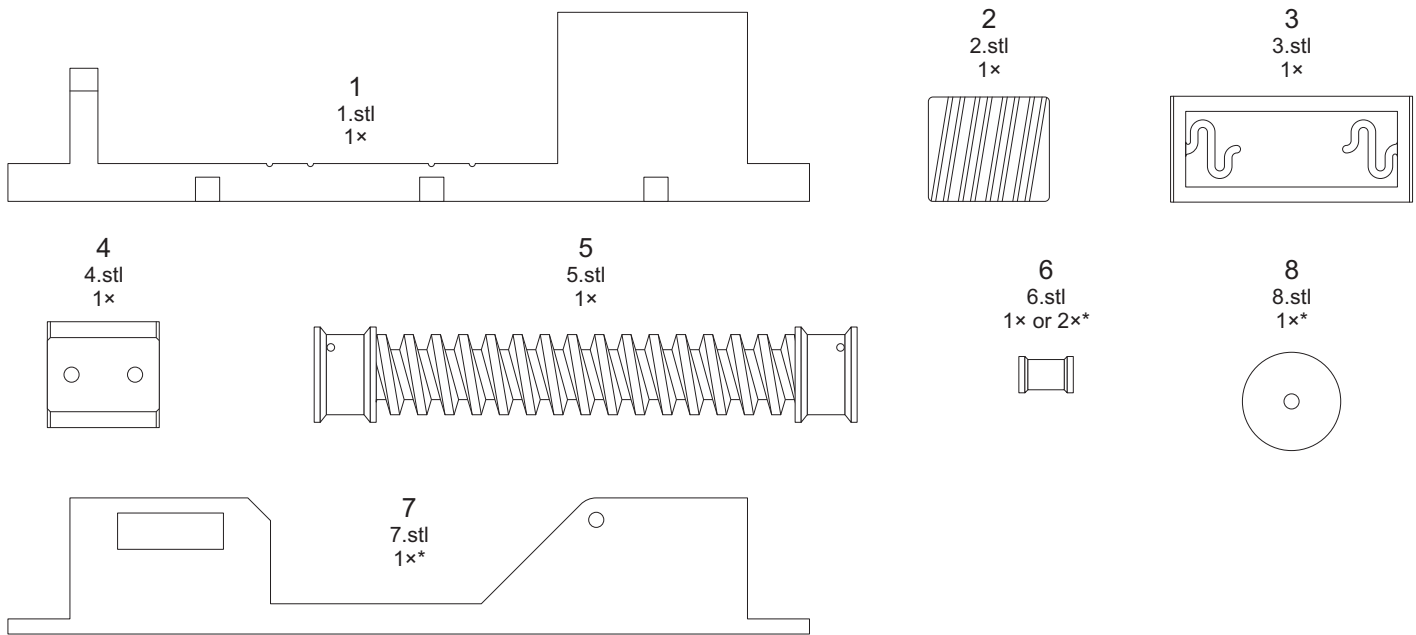
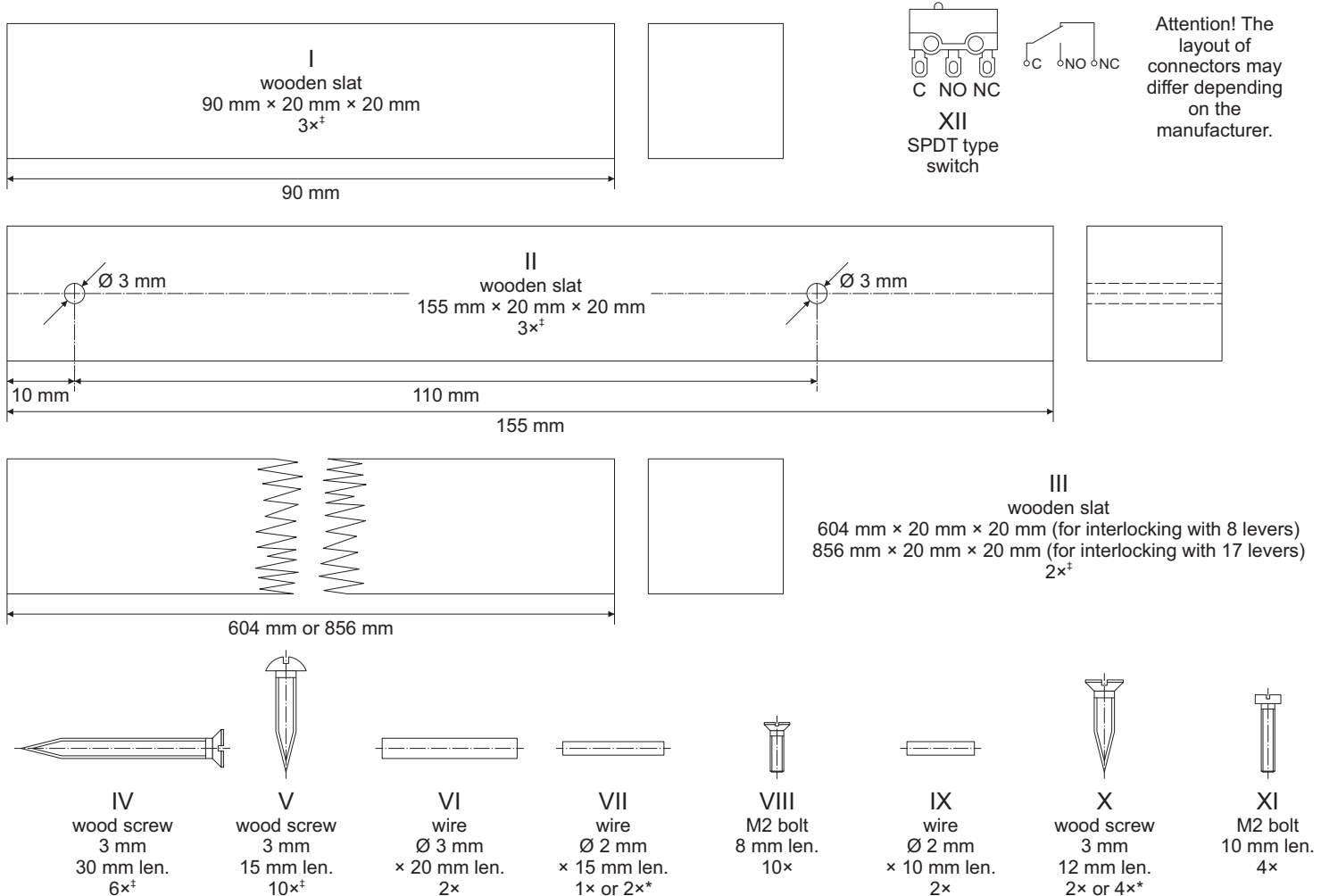


Parts for 3D printing
all parts to be printed out of PETG or PLA
in any colour



Other required parts



Unless otherwise specified, the number of parts refers to a single uncoupled lever or a pair of coupled levers.

* Only for coupled levers, do not print for single levers.

† Parts count for the whole interlocking.

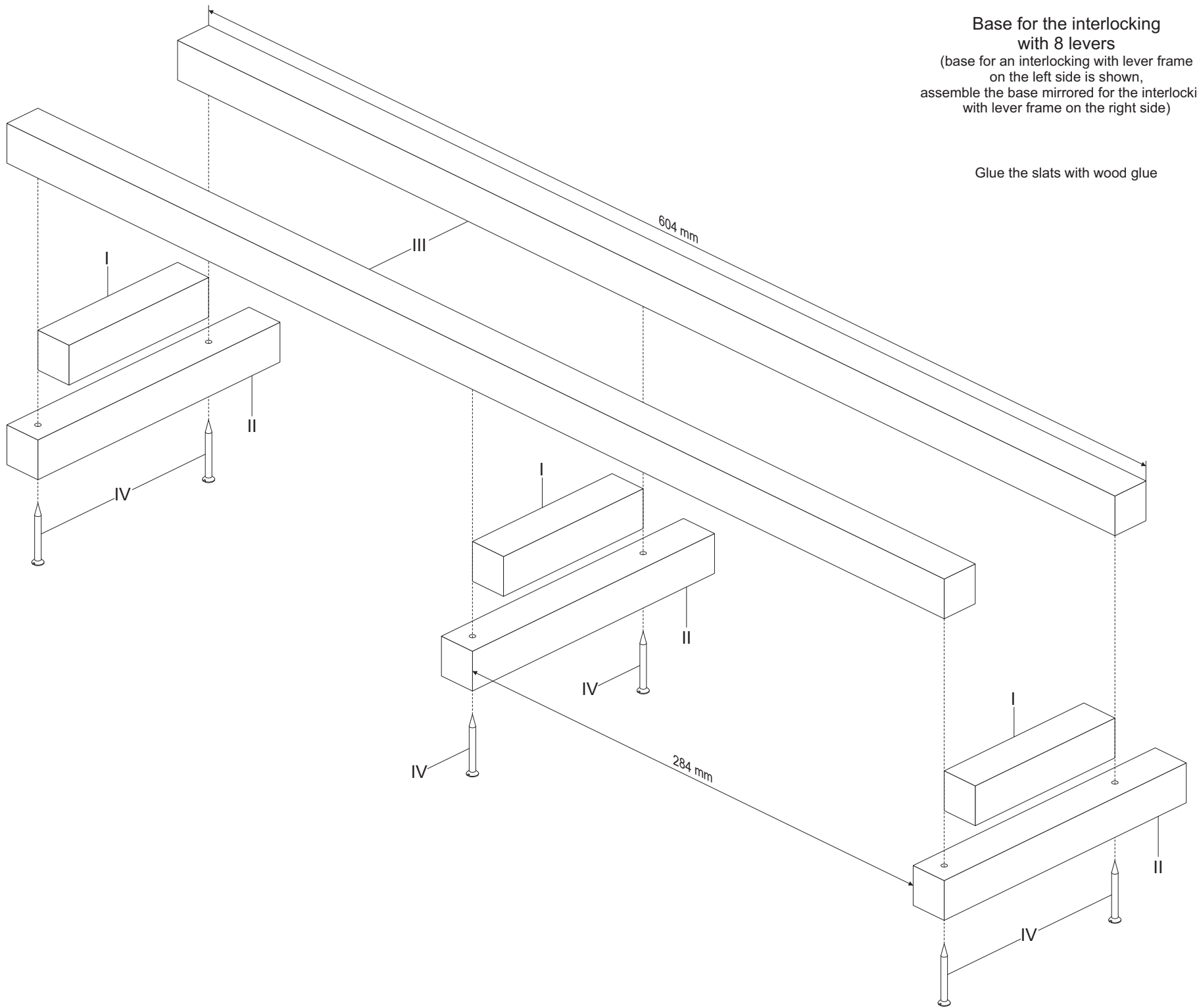
Base and contact sets for 1:5 scale mechanical interlocking

List of parts

Author: Paweł Adamowicz (<http://pkprepo.net/>), 2026, selected rights reserved

Base for the interlocking
with 8 levers
(base for an interlocking with lever frame
on the left side is shown,
assemble the base mirrored for the interlocking
with lever frame on the right side)

Glue the slats with wood glue



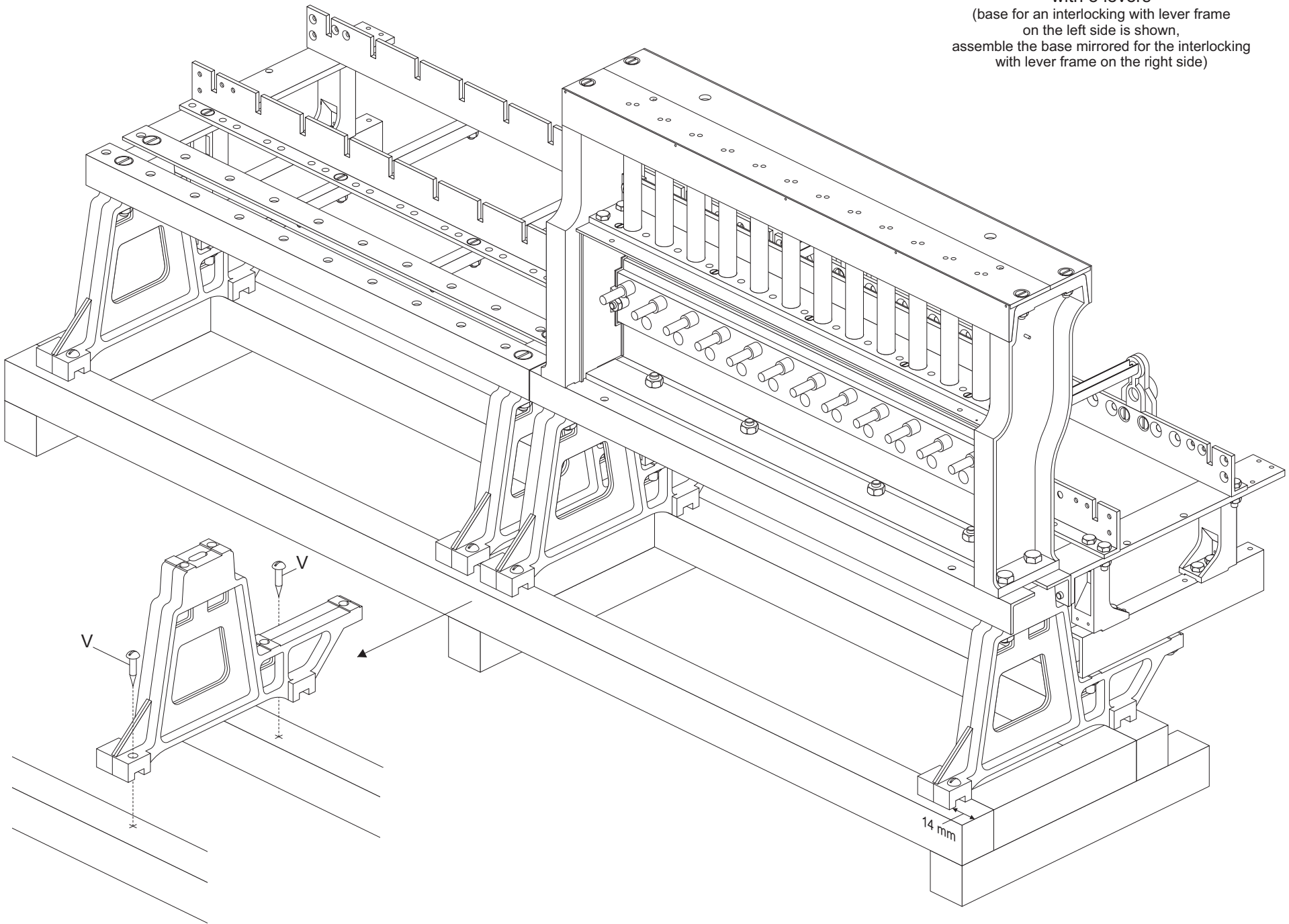
Base and contact sets for 1:5 scale mechanical interlocking

Assembly manual 1/7

Author: Paweł Adamowicz (<http://pkprepo.net/>), 2026; selected rights reserved



Base for the interlocking
with 8 levers
(base for an interlocking with lever frame
on the left side is shown,
assemble the base mirrored for the interlocking
with lever frame on the right side)



Base and contact sets for 1:5 scale mechanical interlocking

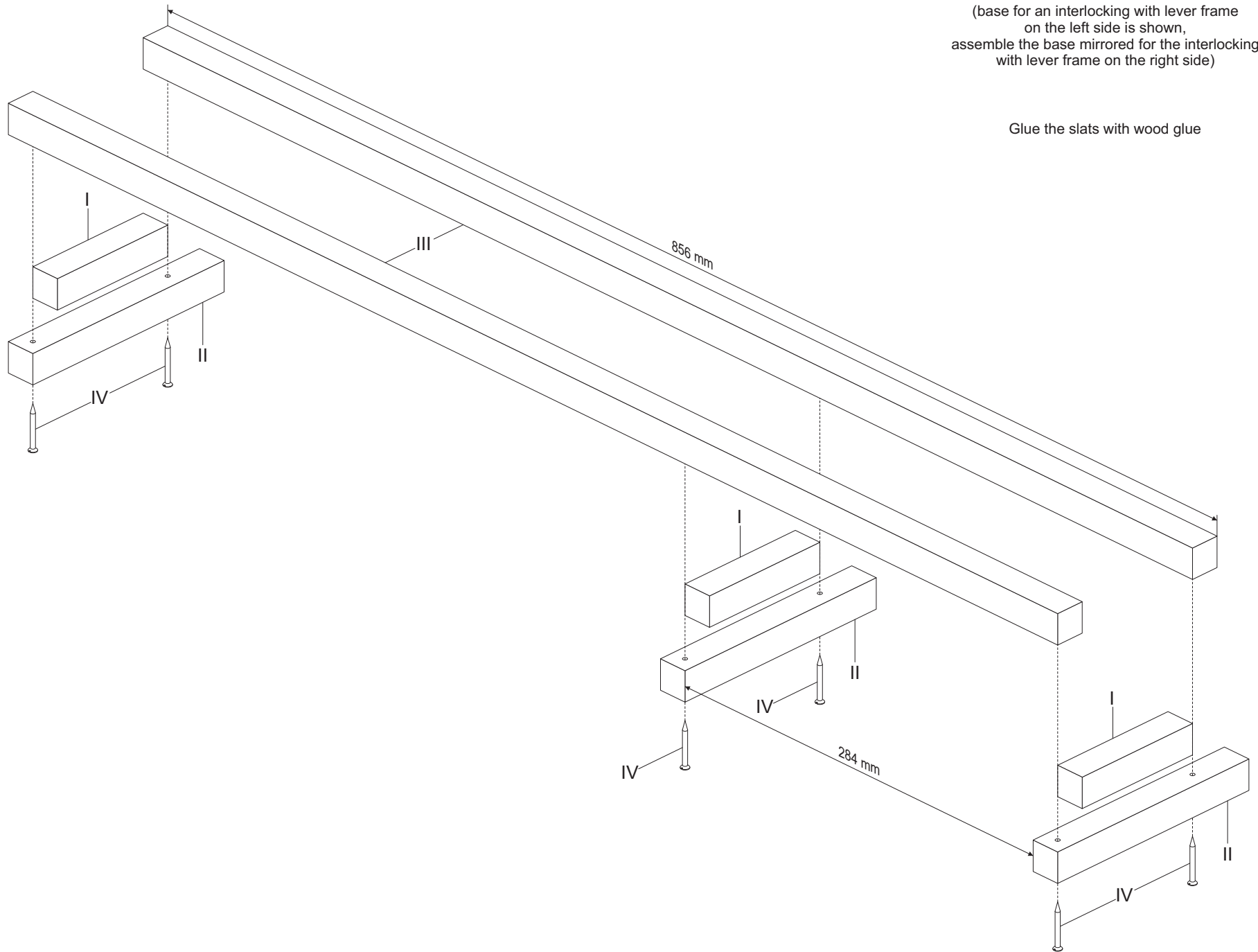
Assembly manual 217

Author: Paweł Adamowicz (<http://pkprepo.net/>), 2026, selected rights reserved



Base for the interlocking
with 17 levers
(base for an interlocking with lever frame
on the left side is shown,
assemble the base mirrored for the interlocking
with lever frame on the right side)

Glue the slats with wood glue



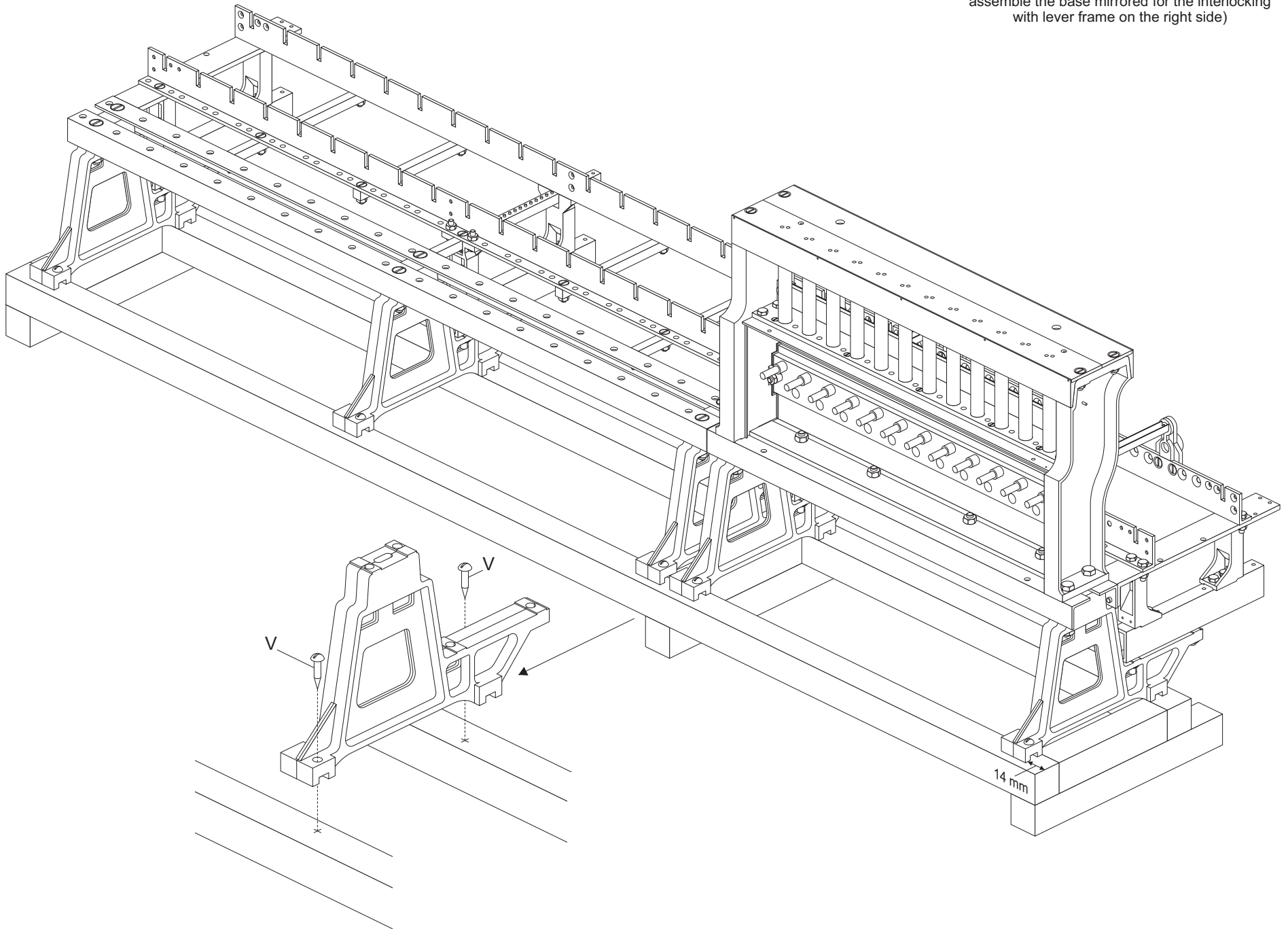
Base and contact sets for 1:5 scale mechanical interlocking

Assembly manual 317

Author: Paweł Adamowicz (<http://pkprepo.net/>), 2026; selected rights reserved



Base for the interlocking
with 17 levers
(base for an interlocking with lever frame
on the left side is shown,
assemble the base mirrored for the interlocking
with lever frame on the right side)

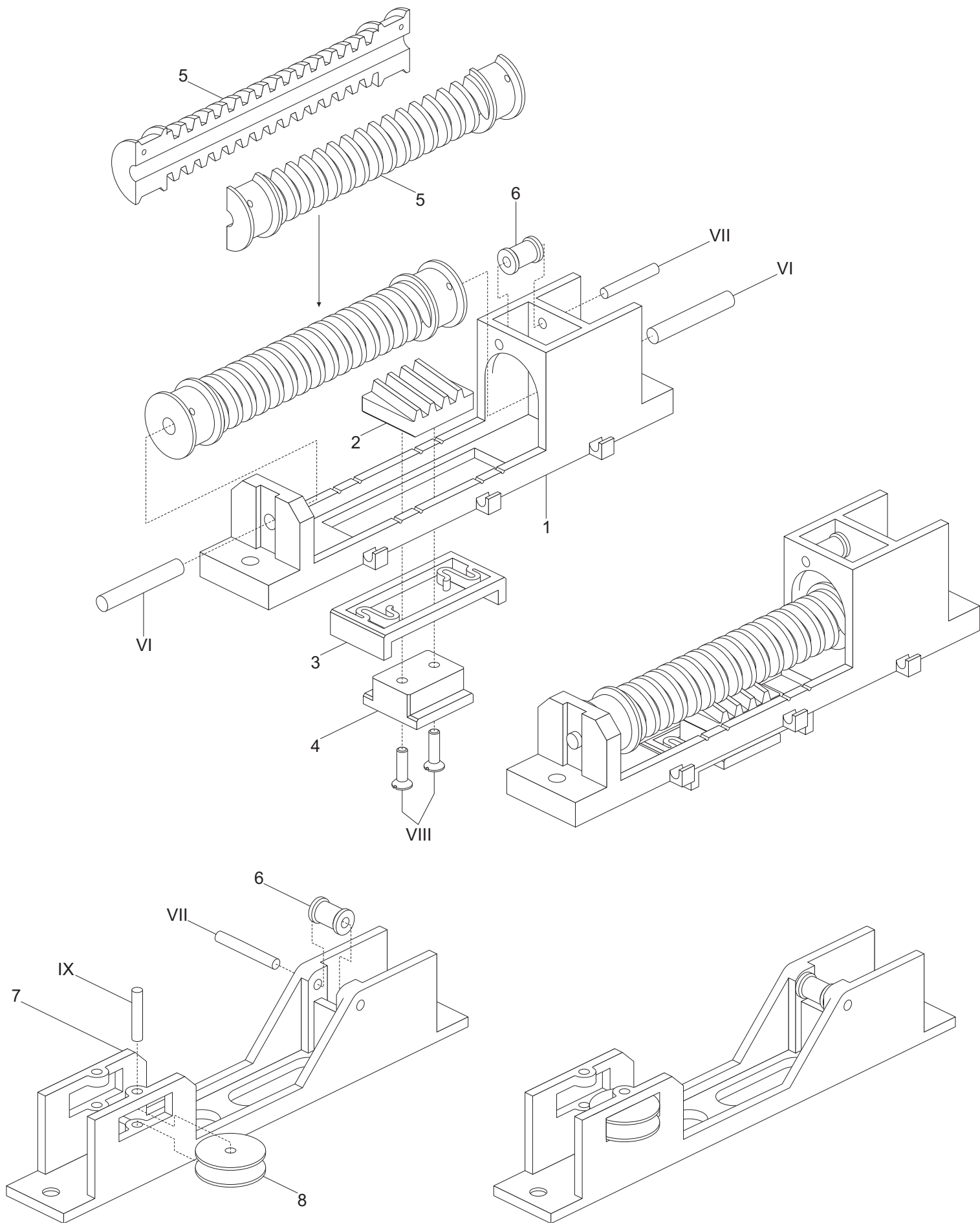


Base and contact sets for 1:5 scale mechanical interlocking

Assembly manual 417

Author: Paweł Adamowicz (<http://pkprepo.net/>), 2026, selected rights reserved

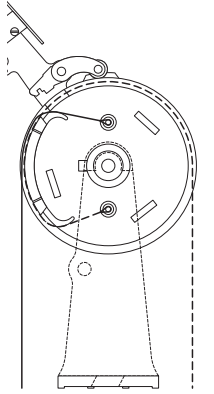




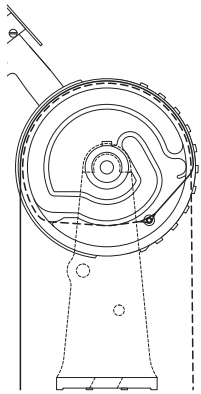
Base and contact sets for 1:5 scale mechanical interlocking

Assembly manual 5/7

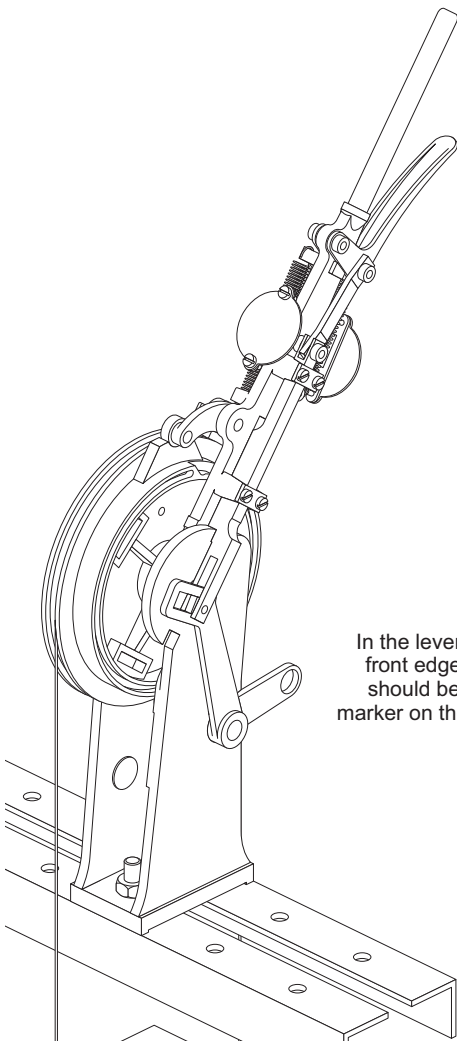
Contacts for points lever
or a single signal lever



Leading the string to the points lever

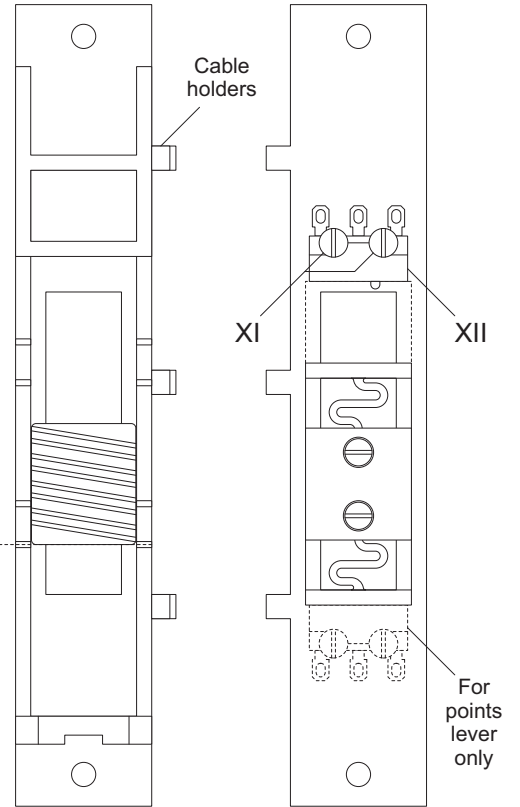


Leading the string to the signal lever



In the lever's home position the front edge of the rack (part 2) should be flush with the front marker on the top surface of part 1.

Due to the possibility of using different types and sizes of switches, the holes for mounting should be drilled after assembly and tensioning of all strings. Switches should be slightly pressed with part 3 in the end positions of the lever.



String
(non-stretchable
eg. waxed cotton)

1.6

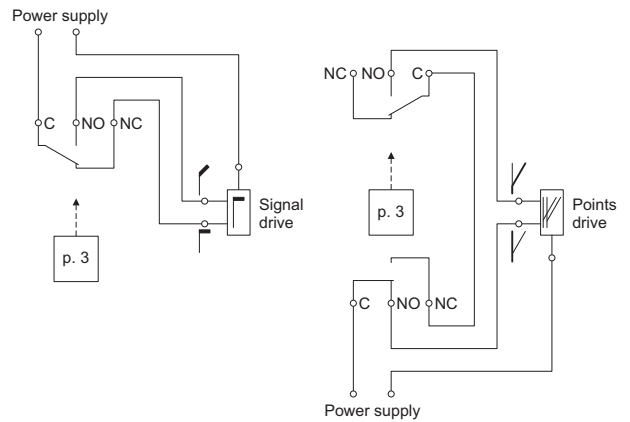
X

X

Wrap around once
(viewed from the front)

Wrap around 4 times
(viewed from the front)

Suggested circuits



Single signal lever

Points lever

Base and contact sets for 1:5 scale mechanical interlocking

Assembly manual 6/7

Contacts for coupled levers

While tensioning the strings, the locking handles must be held in the locked position to prevent the lever discs from shifting.

In the lever's home position the rack (part 2) should be centered between the middle markers on the top surface of part 1.

Refer to the coupling rollers assembly manual on how to guide the string to the rollers.

String
(non-stretchable
eg. waxed cotton)

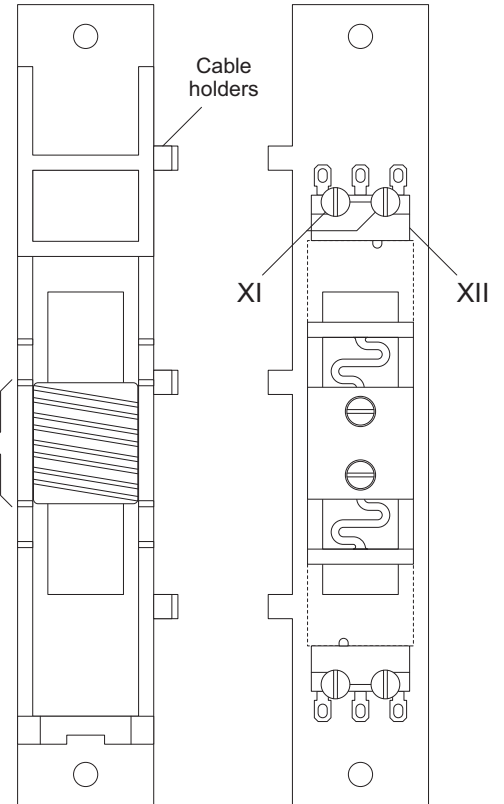
6..8

1..6

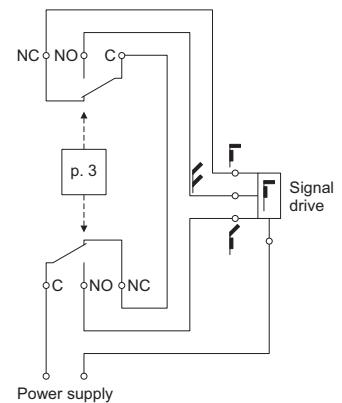
Wrap 4 times around
(viewed from the front)

Wrap 4 times around
(viewed from the front)

Due to the possibility of using different types and sizes of switches, the holes for mounting should be drilled after assembly and tensioning of all strings. Switches should be slightly pressed with part 3 in the end positions of the lever.



Suggested circuits



Base and contact sets for 1:5 scale mechanical interlocking

Assembly manual 7/7