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+86 18U5U1 10.6.3. Using the spreading tool

NOTICE Risk of component damage.

Stack misalignment due to the incorrect use of the spreading tool can damage the semiconductors.

- Only use the spreading tool on released stacks.
- Always support the spreading tool with your hand (arrow in Fig. 10-8).
- Always insert the spreading tool horizontally into a stack. DO NOT attempt to insert the tool from any other angle.

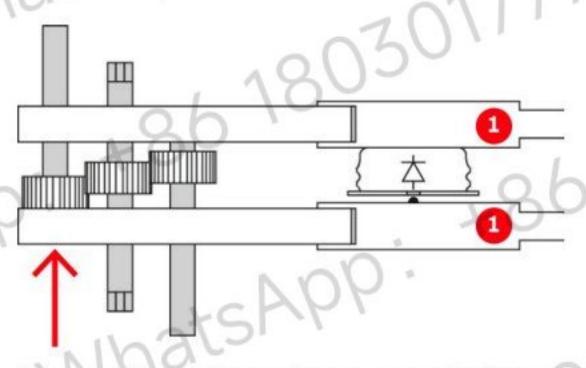


Figure 10-8 Manual support during spreading tool insertion

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Procedure:

1. Insert the spreading tool completely into the slots of the coolers (heat sink) above and below the faulty semiconductor as shown in Fig. 10-9. WhatsApp.

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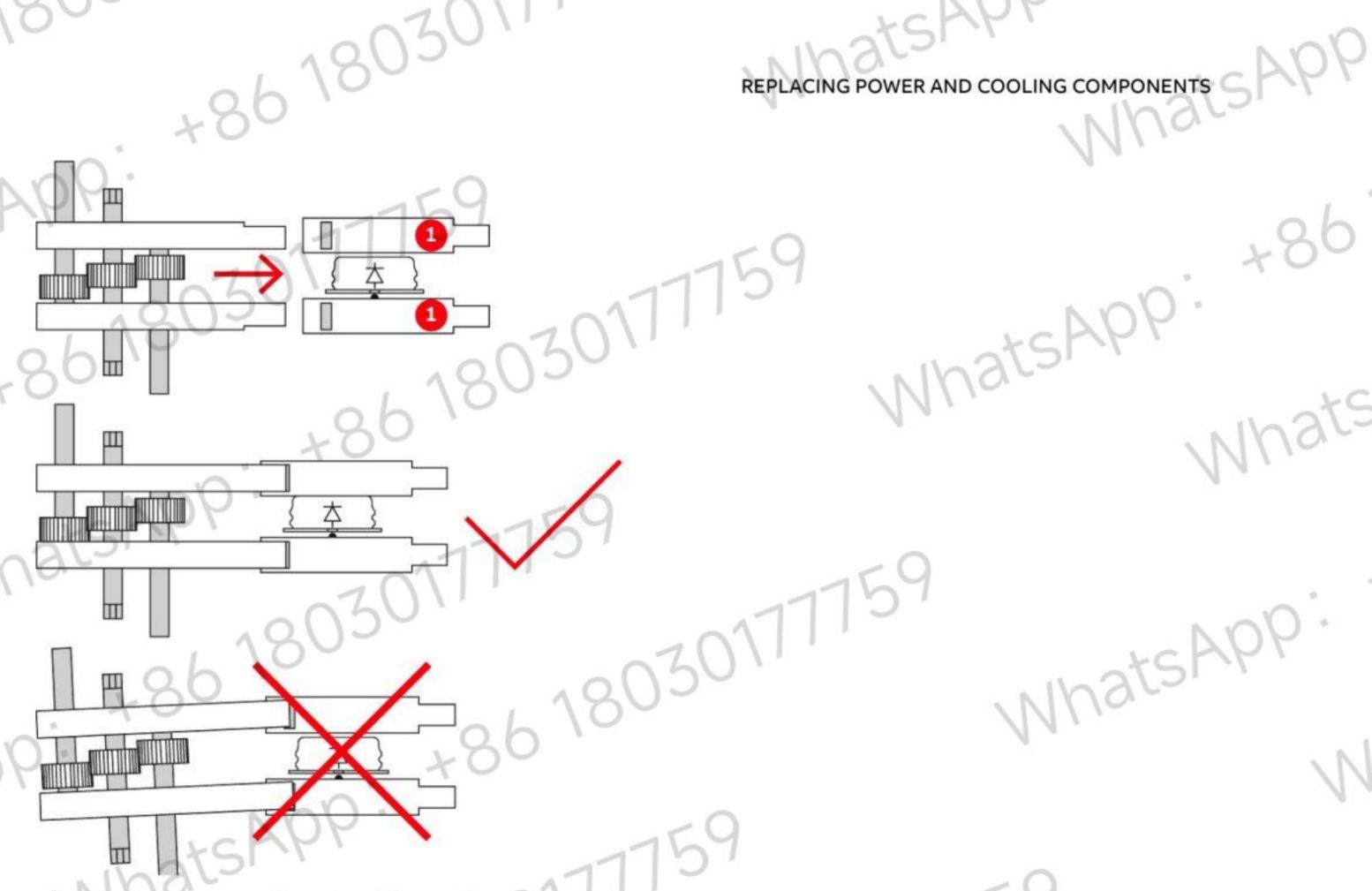


Figure 10-9 Spreading tool insertion

- 1) Heat sink
- 2. Expand the spreading tool by turning the middle rod with a 13 mm wrench to lift off the top heat sink so that the semiconductor can be removed (see Fig. 10-10).

NOTICE Excessive lifting might cause damage to the stack! DO NOT separate the two heat sinks more than necessary to remove the semiconductor.

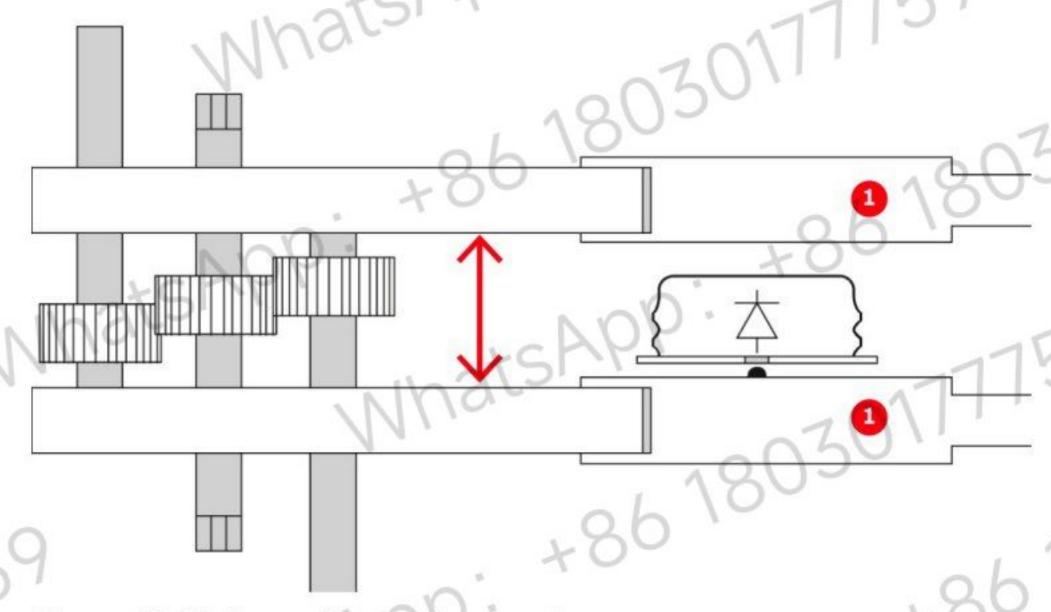


Figure 10-10 Spreading tool expansion

- 1) Heat sink
- For replacing the neutral point diodes the spreading tool must be applied over three heat sinks (see Fig. 10-11).

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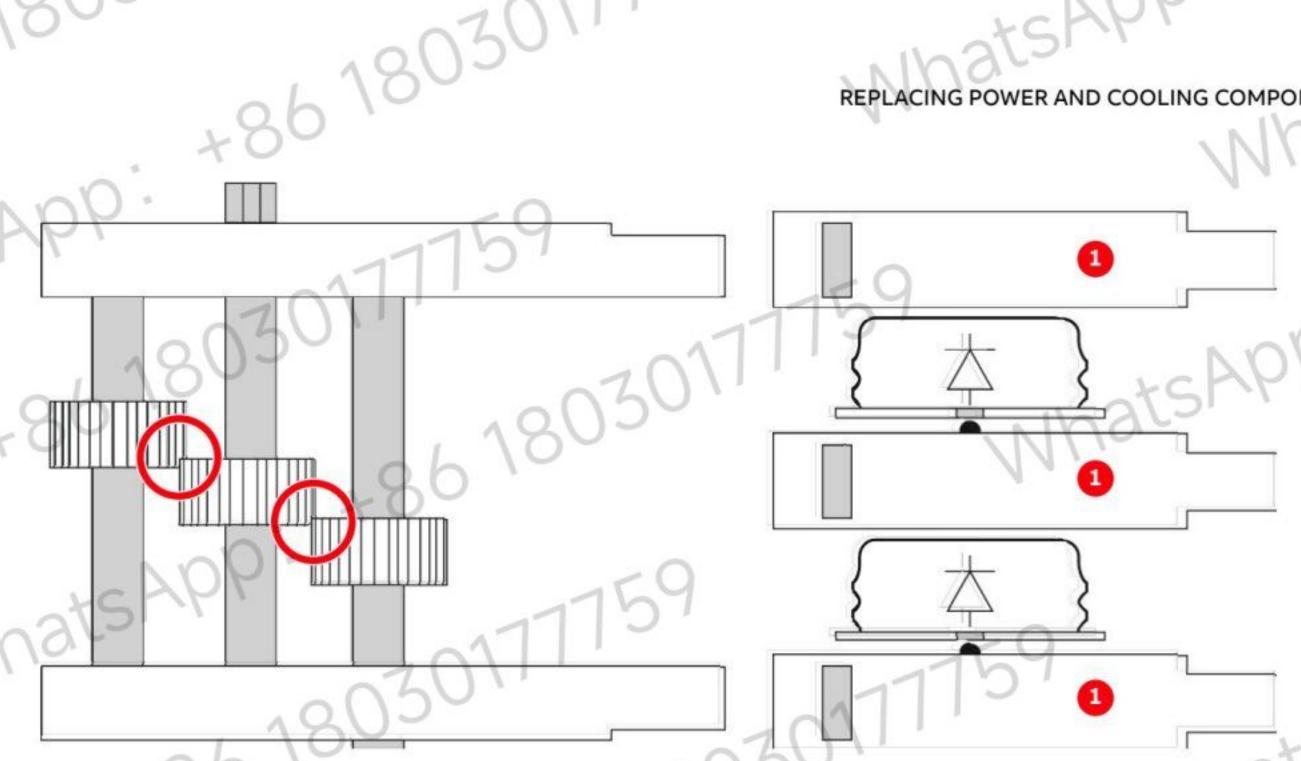


Figure 10-11 Spreading tool applied over three heat sinks

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IMPORTANT! The spreading tool must not be spread too far; the gear wheels must grip into each other at least 3 mm. WhatsAPP WhatsApp: +86 18030177756

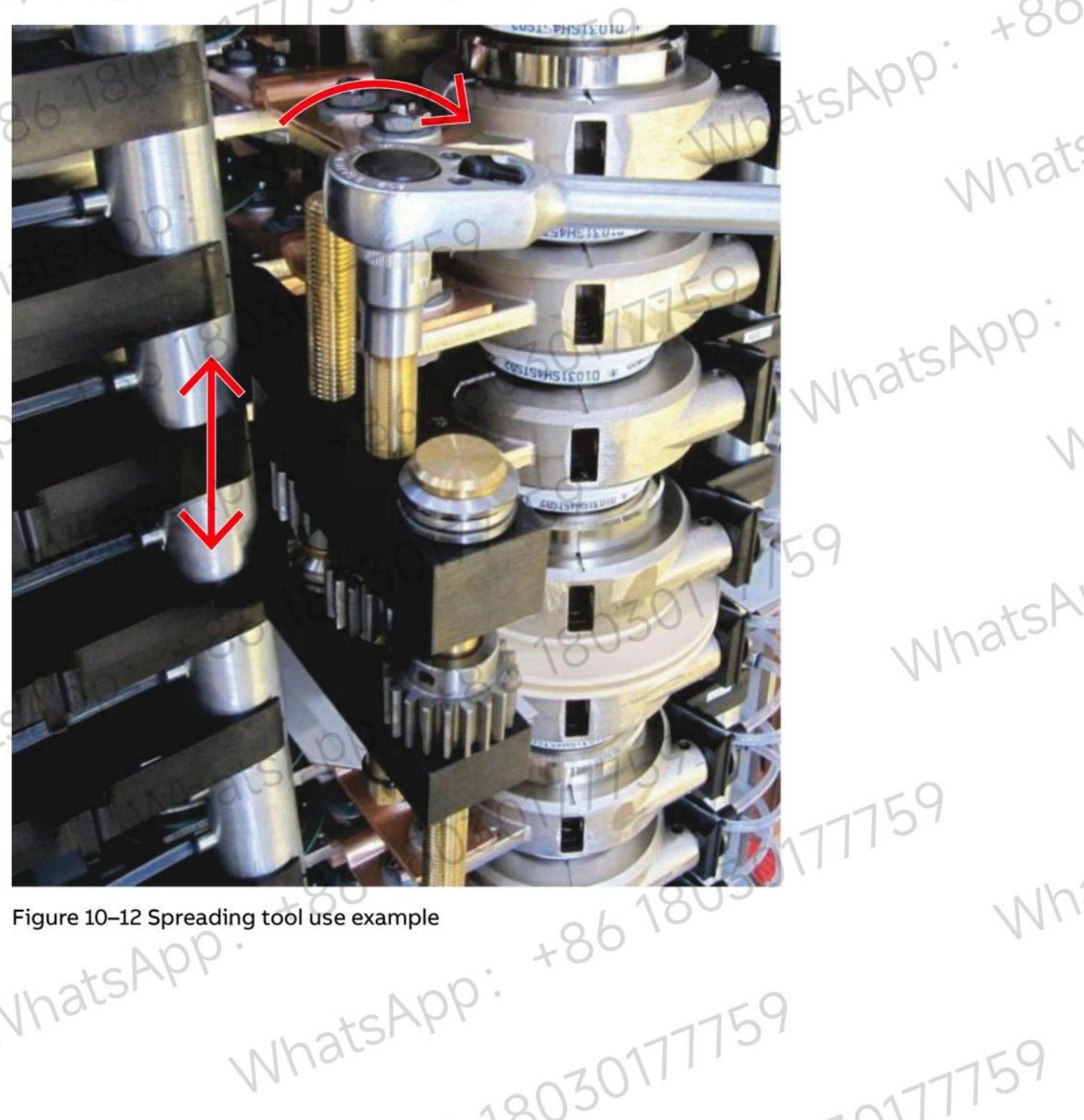
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+86 18U5U1 Fig. 10-12 shows an example of the use of the spreading tool, inserted in the IGCT stack. Turning the wrench clockwise would open the stack.



whatsApp. Figure 10-12 Spreading tool use example

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