

# SKF TKST 11



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## READ THIS FIRST Safety precautions

Read this instruction for use fully. Follow all safety precautions to avoid personal injury or property damage during equipment operation. SKF cannot be responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect equipment operation. In case of any uncertainties as regards the use of the equipment contact SKF.

This device is used for inspecting moving, rotating and vibrating objects. It may only be used in accordance with these instructions. The device must not be opened. Modifications to the device are not permitted. The manufacturer shall not be liable for damage resulting from incorrect use or use contrary to the intended use. Warranty claims will also be invalidated in this event.

### **WARNING:**


#### **Risk of injury!**

- Moving machinery components should not be touched with the probe.
- Do not touch moving machinery under any circumstance.
- The device may not be used in potentially explosive areas.

#### **Warranty void!**

- Do not expose the equipment to rough handling or heavy impacts.
- Always read and follow the operating instructions.
- Opening the housing of the instrument may result in hazardous mishandling and voids warranty.
- Do not expose the equipment to high humidity or direct contact with water.
- All repair work should be performed by an SKF repair shop.

#### **Correct disposal!**

-  =The electronic components in the device contain environmentally harmful substances. They must be disposed of in accordance with the environmental regulations in the country of use.

#### **NOTE:**

- Suitable for use in residential, commercial and industrial area.
- Not intended for medical use.

## EU Declaration of Conformity TKST 11

We, SKF MPT, Meidoornkade 14, 3992 AE Houten, The Netherlands herewith declare under our sole responsibility that the products described in these instructions for use, are in accordance with the conditions of the following Directive(s):  
EMC DIRECTIVE 2014/30/EU  
and are in conformity with the following standards:

RoHS DIRECTIVE (EU) 2015/863

Houten, The Netherlands, February 2022



Mrs. Andrea Gondová  
Manager Quality and Compliance



## UK Declaration of Conformity TKST 11

We, SKF MPT, Meidoornkade 14, 3992 AE Houten, The Netherlands herewith declare under our sole responsibility that the products described in these instructions for use, are in accordance with the conditions of the following Directive(s):  
Electromagnetic Compatibility Regulations 2016 (2016 No. 1091) and are in conformity with the following standards:

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (2012 No. 3032)

The person authorised to compile the technical documentation on behalf of the manufacturer is SKF (U.K.) Limited, 2 Canada Close, Banbury, Oxfordshire, OX16 2RT, GBR.

Houten, The Netherlands, February 2022



Mrs. Andrea Gondová  
Manager Quality and Compliance



## 1. Instructions for use

These operating instructions are an integral part of the device. They must be stored in an easily accessible location and passed on to subsequent users. Ask your supplier if there is something you do not understand.

### **WARNING:**

Read the operating instructions thoroughly and follow the instructions provided. These operating instructions contain important information about installing, starting up and operating the stethoscope. Pay particular attention to the safety information and warnings to prevent injuries and product damage.

The manufacturer reserves the right to continue to develop this device without documenting all developments. Your supplier will be pleased to inform you as to whether these operating instructions are current.

### **Contents:**

- Stethoscope: SKF Stethoscope TKST 11
- Operating instructions
- 2 batteries AA
- Headset and cable
- Two probes, one short and one long
- Case and IFU

### **Description:**

See → **fig. 1, page 5**

- A** - ON OFF Button
- B** - Batteries compartment:  
2 batteries AA must be used
- C** - Probe connector
- D** - External jack plug



Fig. 1 – Stethoscope SKF TKST 11

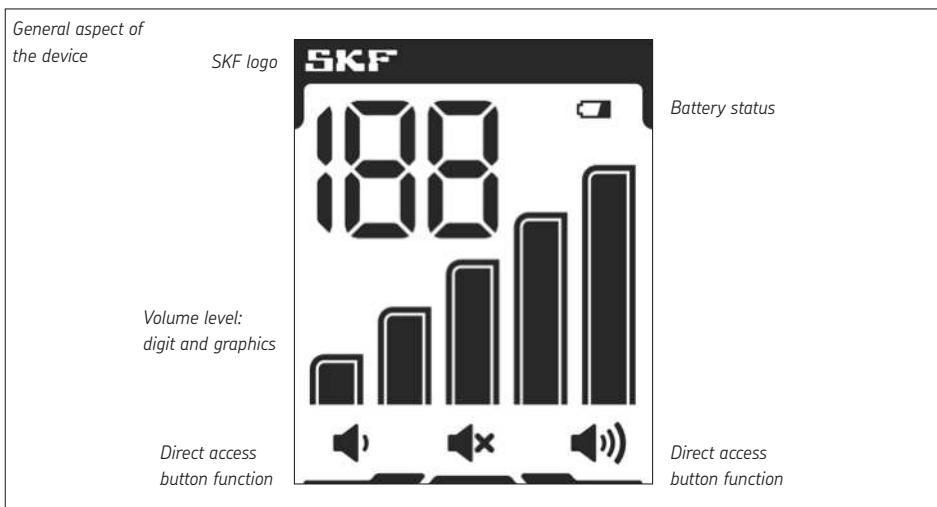


Fig. 2 – Wireframe

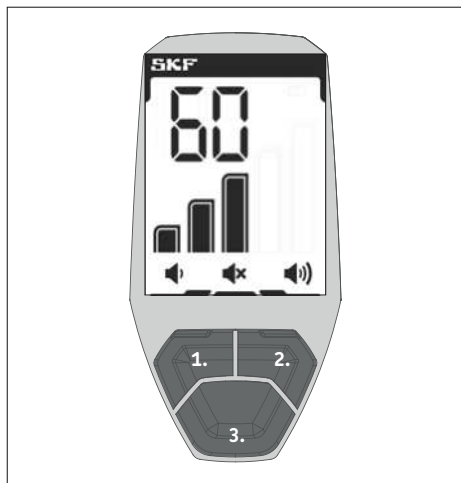


Fig. 3 – Example when listening

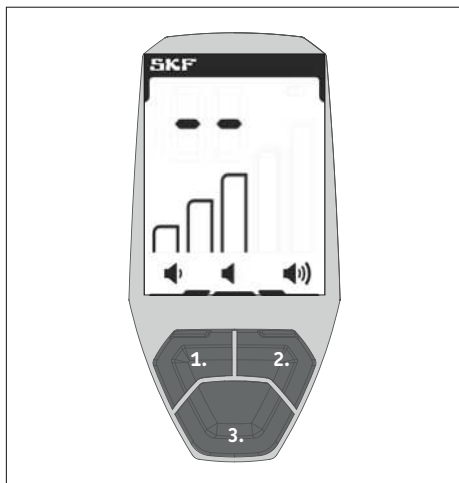


Fig. 4 – Example when muted

1. Direct access button left: volume down
2. Direct access button right: volume up
3. Direct access button center: mute

## 2. Technical data

Designation	TKST 11
Frequency range	30 Hz - 15kHz
Operating temperature	-10 to +45 °C (14 - 113 °F)
Output volume	Adjustable in 15 levels
Display	Black and white LCD
Sound volume	Up & Down
Battery low signal	yes
Symbol	Battery low
Maximum recorder output	250 mV
Headset with ear defender	32 Ohm (right and left merged)
Auto switch off	Yes, after 10 min
Battery	2 × AA Alkaline (included)
Battery lifetime	minimum 30 hours (continuous use)
Probe length	70 and 300 mm (2.8 and 11.8 in)
<b>Weight</b>	
- Total weight	1 670 g (3.68 lb)
- Instrument	290 g (0.64 lb)
- Headset	290 g (0.64 lb)
<b>Dimensions handset</b>	
Dimensions handset	230 × 70 × 38 mm (9 × 2.8 × 1.5 in)
Case dimensions	360 × 110 × 260 mm (14.2 × 4.3 × 10.2 in)

### 3. Getting started:

- Unscrew the battery compartment screw
- Insert the AA batteries respecting the polarity
- Close the lid and tighten the screw.

The device is ready to start listening to a machine with the chosen contact probe: the short one for easy to access machinery, and the long one for spaces with limited access. For this reason, do not direct it at any moving part of a machinery.

Please follow the steps below when setting up the device:

- Screw the chosen probe tip to the device and tighten it gently.
- Plug the cable to the headset outlet, use the 90 degrees angle jack plug side.
- Plug the other end of the cable to the device and secure the jack plug with the thumb screw.
- Push the ON/OFF button for 2 seconds to turn the stethoscope ON.
- Direct the device at a running machine.
- Push gently to contact the tip of the probe to the non-movable machine area of your choice.
- Use the desired volume level by pressing the direct access buttons 1 or 2 for changing the volume up or down.
- When done, press the button OFF for 2 seconds, or leave the Stethoscope untouched for 10 minutes (Auto OFF is 10 minutes).
- At any time, you can press the middle button to Mute and Unmute the Stethoscope.

### 4. General usage

The Stethoscope offers a wide range of volume level to operate it. By pressing the left or right button (button 1 and 2), the volume goes Up or Down, and the middle button is used to Mute or Unmute.

Use the two probes depending on the ease of access of the area where you want to listen.

The output jack plug on the side is there in order to plug a recording device (not sold by SKF).

## 5. Troubleshooting

Problem	Solution
Display is dirty	Use a wet cotton swab to clean the display area and a clean, dry cotton cloth to remove any water remains. Do not wash the display with too much water or solvents.
Screen is frozen	Remove the batteries and wait for 1 minute before placing them back. Start the device and check that everything works.
Too short operating time	Replace batteries with new batteries. Check if another brand offers better performance. Do not store the stethoscope in very hot or cold environments.

## 6. Spare parts and accessories

Designation	TKST 11
TKST-PROBES	2 probes set
TKST-HEADS	Headset
TKST 11-CB	Toolcase with inlay for TKST 11











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