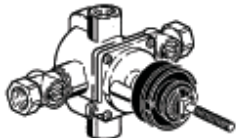
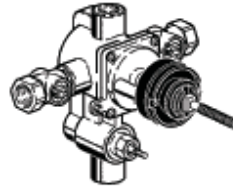
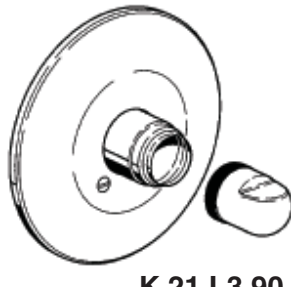
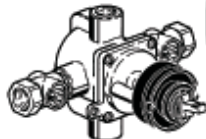
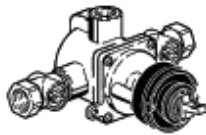
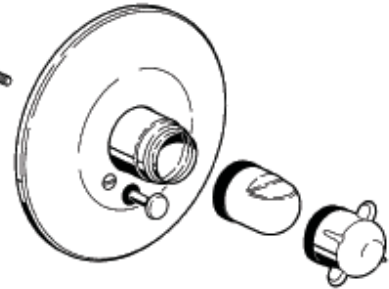
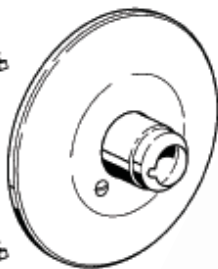
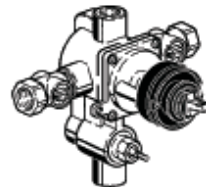
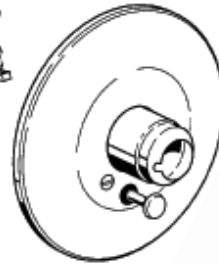
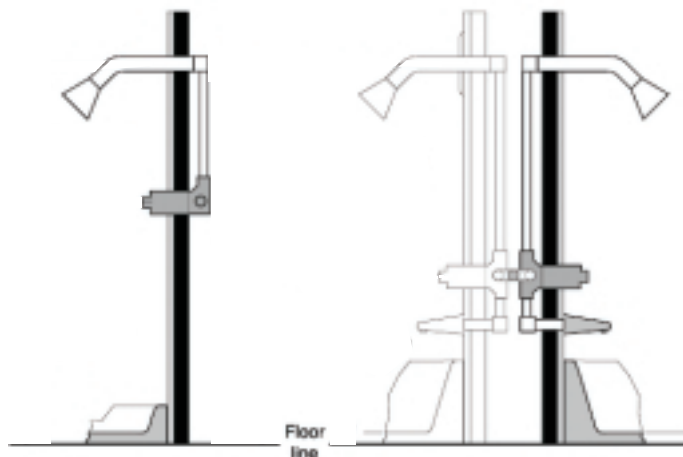


Pressure Balance mixer
Mitigeur avec compensation de pression
Mezclador con compensación de la presión**KWC TEMPRESS/ K.38.P4.04/05/06**
KWC DESIGNO/ K.20/21.H3.90
KWC FAMOSO/ K.20/21.W3.90
KWC LUX/ K.20/21.L3.90**K.38.P4.05****K.38.P4.06****K.38.P4.04****K.21.L3.90****K.20.L3.90****K.21.H3.90****K.21.W3.90****K.20.H3.90****K.20.W3.90****E Operating data**
Ideal operating pressure : 3 bar (45 PSI)
Max. operating pressure : 5 bar (70 PSI)
Ideal water temperature : 60 °C (140°F)
Max. water temperature : 90 °C (190°F)**F Caractéristiques de fonctionnement**
Pression de service idéale : 3 bar
Pression de service max. : 5 bar
Température idéale de l'eau : 60 °C
Température max. de l'eau : 90 °C**Sp Características de funcionamiento**
Presión ideal de servicio : 3 bar
Presión máxima de servicio : 5 bar
Temperatura ideal del agua : 60 °C
Temperatura máxima del agua : 90 °C**Before installation flush pipes thoroughly!****Rincer à fond la tuyauterie avant le montage!****Limpiar escrupulosamente las tuberías antes del montaje!****Schweiz, Suisse:**
KWC AG
Hauptstrasse
CH-5726 Unterkulm**USA:**
KWC Faucets Inc.
1770 Corporate Drive # 580
Norcross, GA 30093Tel. : 062 768 67 77
Fax : 062 768 61 69Tel. : 678 334 2121
Fax : 678 334 2128

Standard installation Back-to-back installation

Standard installation:
Shower only

Back-to-back installation:
Tub and shower



Back-to-back installation:

In back-to-back installations, cartridge must be rotated 180° to ensure proper valve operation.

Rough-in



3 port valve shower only:

Position valve with outlet up. Finished wall must be within the dimensions shown on finished wall template.



4 port valve, tub and shower:

Position valve with shower outlet marked "S" up and the tub outlet marked "T" down. Finished wall must be within the dimensions shown on finished wall template.



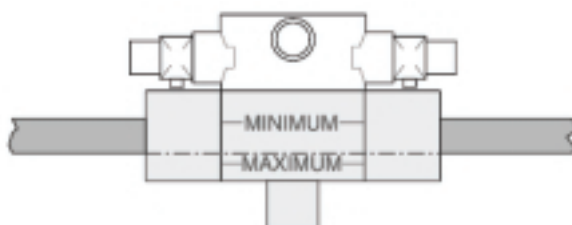
Finished wall template must remain intact for finished wall surface measurements and as a template for plastering and / or tiling.



It is not necessary to remove the pressure balancing cartridge from the valve during normal soldering of connections, using propane-butane gas. Do not use OXYGEN-ACETYLENE !



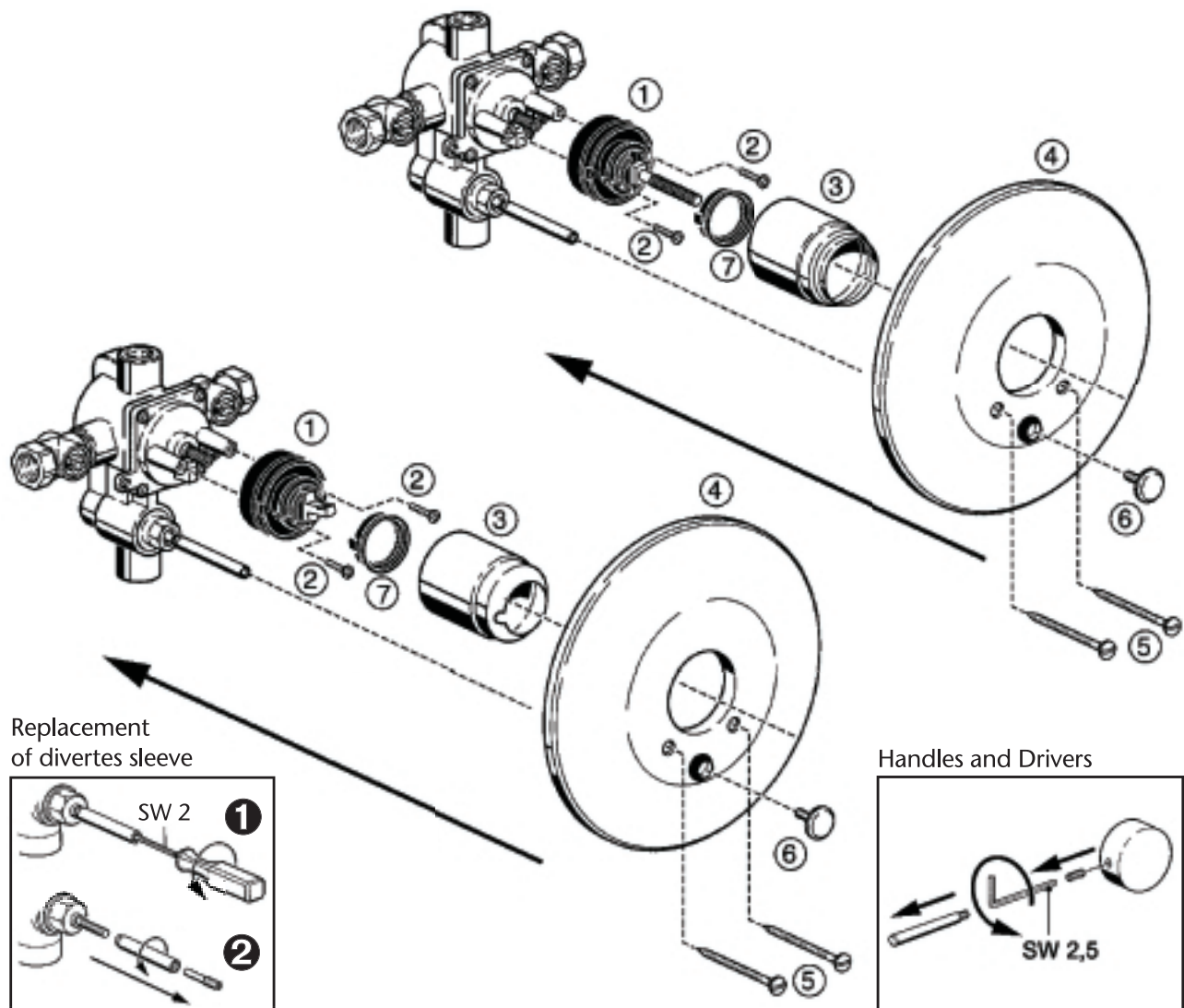
**When soldering connections, do not use excessive heat !
To test the pipe joints, pressurize both hot and cold inlets !**



Installation of the trim set

Installation de set de montage

Instalacion del set de montaje



Operation:

A counterclockwise rotation opens the valve beginning with cold water. An adjustable hot limit stop reduces risk of accidental scalding. Clockwise rotation of the handle closes the valve. The valve's comfort zone ensures a safe, reliable and precise adjustment of mixed water temperature in the range from 95°F (35°C) to 105°F (40°C).



The featherlight touch of the handle provides simple and easy control for the young or elderly.

This product is precision engineered to provide superior performance provided it is installed and operated in accordance with these recommendations. In order to fully enjoy the comfort, safety and reliability of your pressure balancing valve, be certain to familiarize yourself with these instructions.

Failure to follow these instructions may cause damage or improper operation and nullify the warranty !

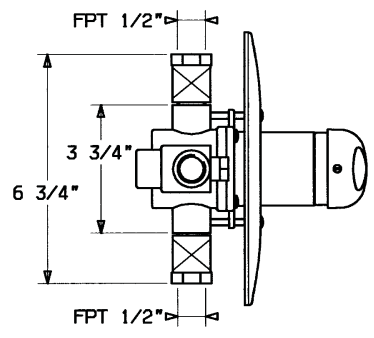
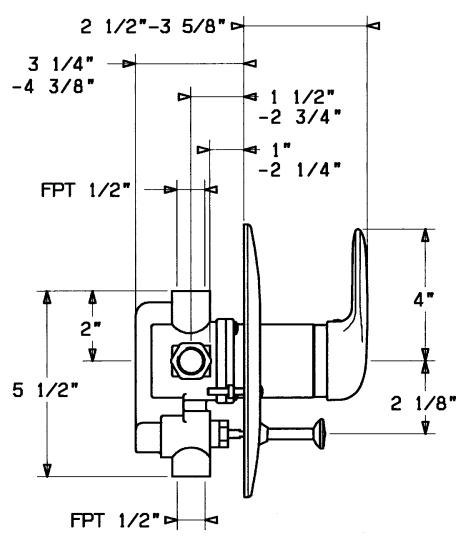
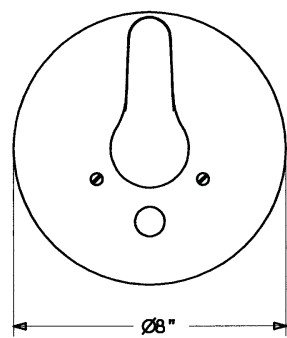
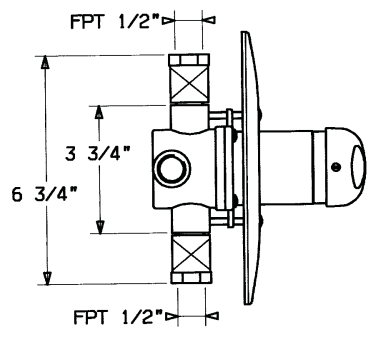
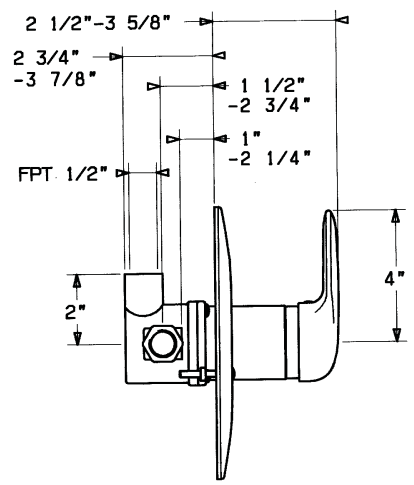
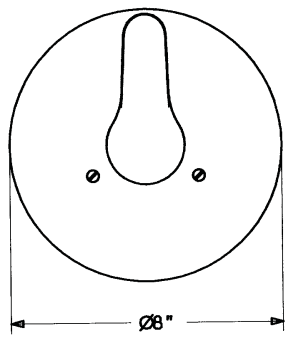
Trouble shooting

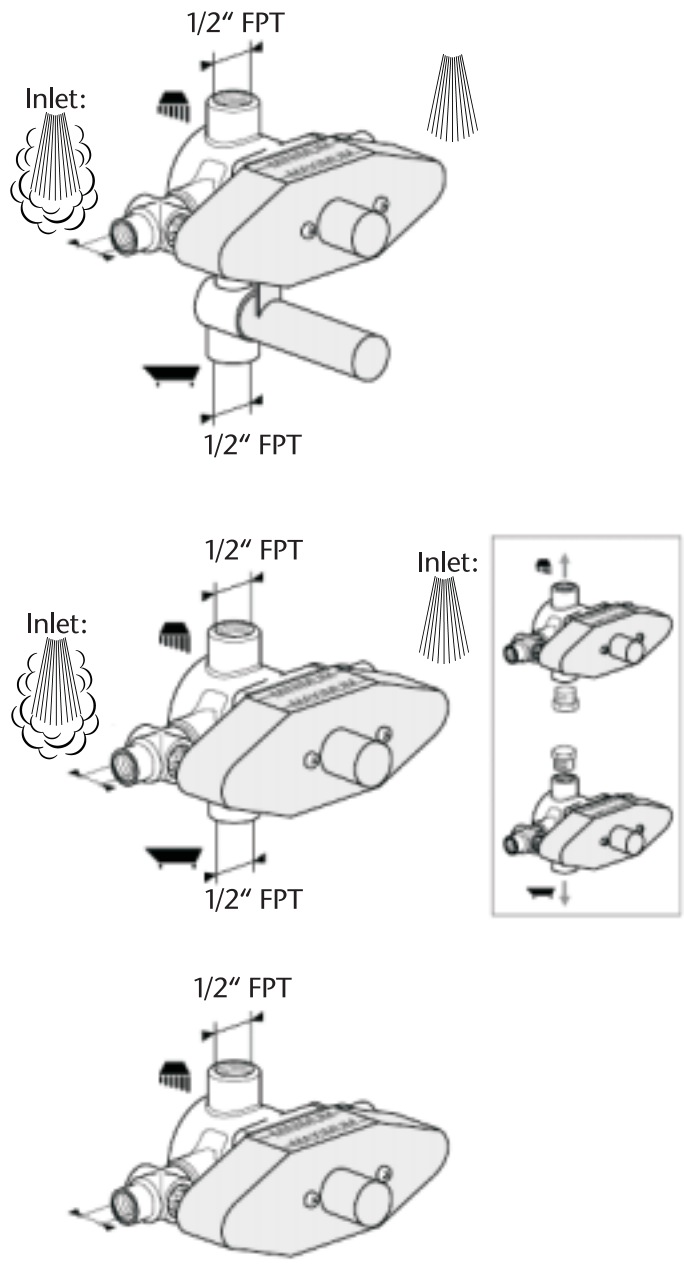
Malfunction:	Cause:	Remedy:
Hot and cold reversed.	Hot and cold water supplies have been connected in reverse.	Rotate cartridge as described in "Back-to-back installation"
Tub filler shower head drips after shutting off the valve.	Water remains in the shower piping. (This is normal) Incorrect setting of the stop ring causing a partially opened cartridge. Cartridge inlet O-ring seal is faulty	Allow approximately 3-5 minutes to drain column, or push lever on tub spout to the tub fill position. Reset the hot limit stop ring as described in rough-in installation. Check the O-ring for cuts or damage and replace if necessary.
Shower insufficiently hot	Hot limit stop incorrectly set.	Refer to the instruction: Check hot water temperature.
No flow of hot or cold water	Either the hot or cold side is not fully pressurized. Debris caught inside the inlet of the cartridge. No engagement between handles and plastic driver.	Be sure service stops are both fully open and system is pressurized. Remove cartridge and flush out or remove any debris lodged inside the hot or cold inlets.
Valve body too deep in wall	Improper installation.	Install extension kit (include).

Never try to stop dripping by applying excessive force to the handle when closing the valve!

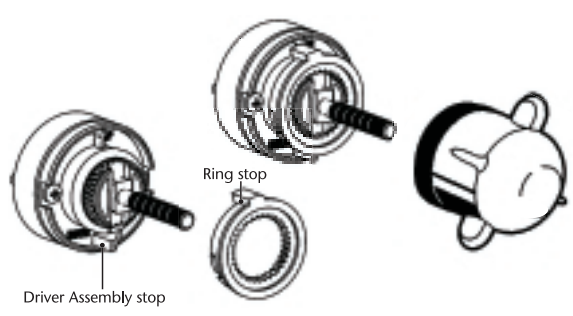
 **Attention:**
Before installation flush pipes thoroughly!

Installation dimensions
Dimensions d'encastrement
Dimensiones de instalación



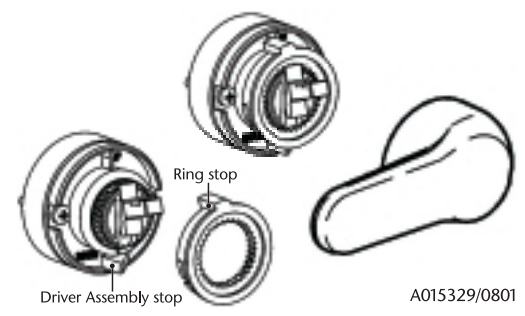


Setting the hot limit stop

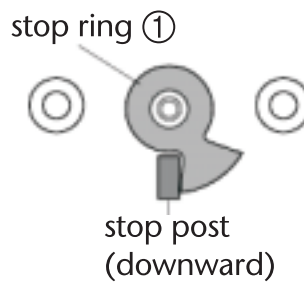
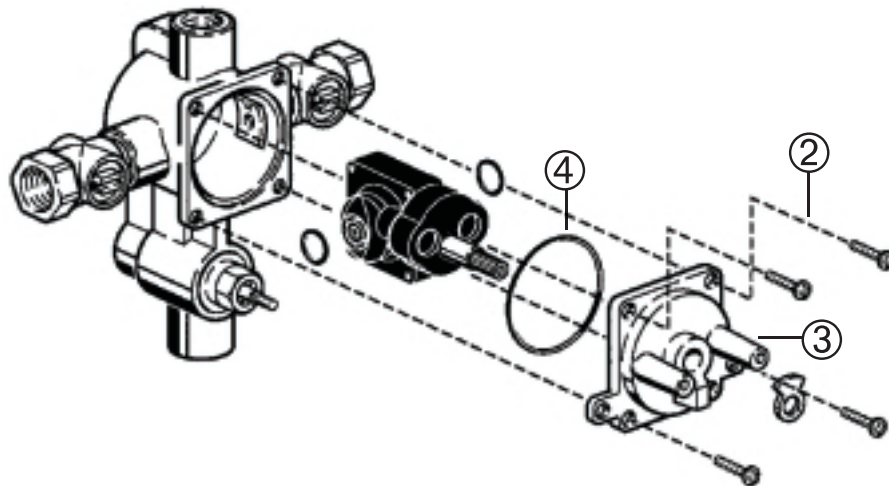


Turn stainless steel lever until desired temperature is discharging (use handle).

Place adjustable handle limit ring over the diver splines with ring stop against the driver assembly stop. Push limit ring to snap into position.



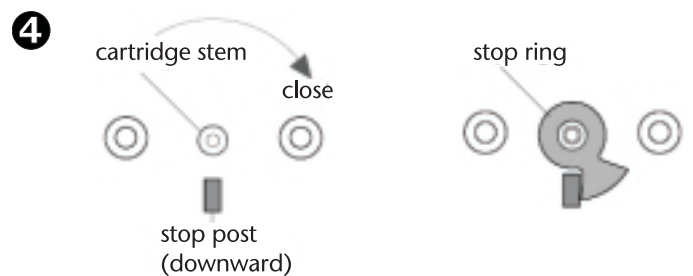
Back-to-back installation



- 1 Close service stops:**
- Remove the wall template
 - Close the hot and cold water supplies.

- 2 Remove stop ring:**
- Remove stop ring (1) note position.

- 3 Turn cartridge for back-to-back installation:**
- Remove the four cover set screws (2) and the valve cover (3) with O-ring (4).
 - Pull the cartridge out. Do not damage the O-ring seals.
 - Rotate the cartridge 180° turning it upside down. Place it into the valve body. Note position of hot ("H") and cold ("C") markings on the cartridge:
 "H" hot will now be on the right and "C" cold on the left. Two alignment pins located on the cartridge must sit in the locating holes within the valve body. Cartridge is correctly engaged when pushing the cartridge, it will not rotate.



- Put the O-ring (4) on the valve cover. Make sure the surface of the valve cover, on which the O-ring will sit, and the O-ring are both clean.
- Position the valve cover with stop post facing down. Seat the cover to the body. Do not pinch the O-ring. The assembly should fit together with a minimum of pressing force.
- Tighten up the cover screws diagonally, first lightly and then more firmly.

- 4 Fix stop ring on closed position:**
- Close the valve by turning the cartridge stem clockwise.
 - Position the stop ring on the stem as shown in figure 4.
 - Install plastic adapter with screws.

In General

- Faucet surface should be of room temperature before cleaning (elevated temperature increases destruction of the surface).
- Never use harsh or aggressive cleaning agents or detergents.

Maintenance

- Faucet should be dried with soft cloth daily.
- Never use corrosive cleaners or cleaning pads.

Cleaning

- Dirt or calcareous deposits on faucet's surface may be removed with soft detergent or with soapy water!
- Rinse will immediately with water (make sure no chemicals remains on surface)
- Dry with soft cloth

Instructions principales pour le nettoyage

- Durant le nettoyage, la surface du robinet doit être froide (la chaleur accélère l'usure de la surface)!
- Nous vous prions de faire attention aux indications mentionnées sur les nettoyage!
- Assurez vous que les produits ne contiennent pas d'acides ou des substances corrosive.

L'entretien

- Le robinet doit être nettoyé chaque jour avec un chiffon mou.
- Evitez absolument l'usage des brillants pour métaux, éponges abrasives ou produits similaires!

Le nettoyage

- Enlevez salissures et dépôts calcaires de la surface du robinet seulement avec des produits qui ne sont pas agressifs!
- Immédiatement après le nettoyage, rincer bien les résidus des détergents avec de l'eau froid!
- Sécher avec un chiffon mou.

Avisos básicos de limpieza:

- Cuando se procede a limpiar la grifería, su superficie debe estar fría (el calor acelera la destrucción de la superficie)!
- Respetar los avisos de limpieza del fabricante del detergente!

Cuidado:

- Secar la grifería frotando diariamente con un paño blando!
- Evite, imprescindiblemente, detergentes y esponjas de limpieza raspantes!

Limpieza:

- Quitar las manchas de suciedad o cal en la superficie de la grifería sólo con un detergente poco agresivo!
- Inmediatamente después de la limpieza eliminar, enjuagando con agua fría, todos los residuos del detergente!
- Secar frotando con un paño blando.



E Damages to the faucets as a results of incorrect handling are excluded from the manufacturers warranty!

F Ces dommages survenus en raison d'un traitement inatéquat, des signes d'usure traitement inatéquat, naturels ou du grand utilisation, sont exclus de notre garantie!

SP Daños, debidos a un tratamiento inadecuado, son excluidos de la nuestra garantía!