

USER MANUAL

AUTOLINE SAND SPREADERS

MODELS: T40 - C50 - Y60 - V70 - S90

Autoline congratulates you for choosing the “world’s best” sand spreader!

It is important to follow the descriptions in this user manual in order to achieve the best and most effective use of Autoline sand spreaders.

Should you require more information, please contact Autoline via the following address, telephone number or fax number:

AUTOLINE

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CAUTION: Do NOT touch the delivery system while it is rotating

DESIGN/OPERATION

Each sand spreader is a standalone unit that consists of a motor, gears, delivery system (roller in the bottom of the container), heating element and top with lid for refilling sand.

Autoline sand spreaders only need an electric current in order to work.

The delivery system is designed to feed out sand alternately to the inner and outer wheels in order to achieve a longer spreading time and to achieve the best effect from the sand.

Autoline sand spreaders are made of stainless steel, the lids of aluminium and the mounting brackets of steel.

SAND QUALITY

The choice of sand is crucial with respect to the effectiveness and reliability of the sand spreaders. To achieve the absolutely best effect USE 4-8 mm CRUSHED SAND (GRAVEL).

If another type of sand is used, the spreading time (length) will vary and the friction between the wheels and road surface will also vary.

Sand mixed with salt can be used, but in this case the heating element should not be used since the sand will bake onto the heating element.

Sand mixed with salt is also “stickier” than unsalted sand and some of it may remain inside after the sand spreader appears empty.

Other sand qualities can also be used; however the reliability and effectiveness of the sand spreader will vary with different sand qualities.

USING THE HEATING

The heating can remain on at all the times while the vehicle is in use. If sand mixed with salt is used, the salt will bake onto the heating element.

If the sand has frozen while the vehicle has not been in use, the heating must be turned on for at least two hours before the sand spreader is used. The time it takes for frozen sand to thaw out will vary depending on the air temperature and vehicle type.

FUNCTIONALITY OF ORIGINAL SWITCHES

The design of the switches will vary from vehicle make to vehicle make and some makes such as Volvo and MB have an inbuilt yellow lamp in the switch that indicates the heating is on. Other makes, e.g. Scania, need an extra yellow lamp installed next to the switch.

When the yellow lamp is lit the heating element is on.

When one switch is installed (single control) both spreaders are controlled by the same switch. This also applies to heating.

When two switches are installed (separate control) the right-hand and the left-hand sand spreaders can be operated separately. There is a single switch for heating, i.e. the heating for both containers is turned on with one switch.

Both switches do not need to be set to the “heating on” position. It does not matter which switch is set to the “heating on” position. When separate control is used you can combine one switch being set to the “heating on” position and the other switch being used to start the sand spreader, in this case the motor heating will be on at the same time.

INDICATOR LAMPS

There are two indicator lamps with red lights that indicate whether the spreading function is on or off. The lamps are located such that the right-hand lamp is for the right-hand sand spreader and left-hand one the left-hand side spreader.

If one of the lamps goes out when the switch is set to the “spread” position (red light), this indicates that the spreader’s motor that feeds out the sand is not receiving current.

SAND OUT-FLOW REDUSER PLATE (SROP)

The SROP is the part/plate that covers the delivery system inside the bottom of the sand spreader and is attached with two nuts. See Fig. 12 K.

If sand which “clumps” easily is used, the SROP can be removed by removing the two nuts that hold the SROP in place. The SROP can then be removed and the nuts must be replaced once the SROP has been removed. The use or non-use of the SROP is largely optional and the decision should be based on the user’s experience and the sand quality.

USING THE SAND OUT-FLOW REDUSER PLATE (SROP)

The SROP is shown as **K** in Fig. 12.

It is up to the user to decide whether or not to use the SROP. If the recommended sand, 4-8 mm crushed sand/gravel, is used, the SROP should be installed.

If a different sand quality is used, and the sand does not “disperse” easily, the SROP can be removed. This is done by removing the two nuts that hold the SROP in place and removing the SROP.

The nuts must be mounted back into place after the SROP has been removed, see **K1** Fig. 12.

It is also possible to attach adjustable wings to the SROP.

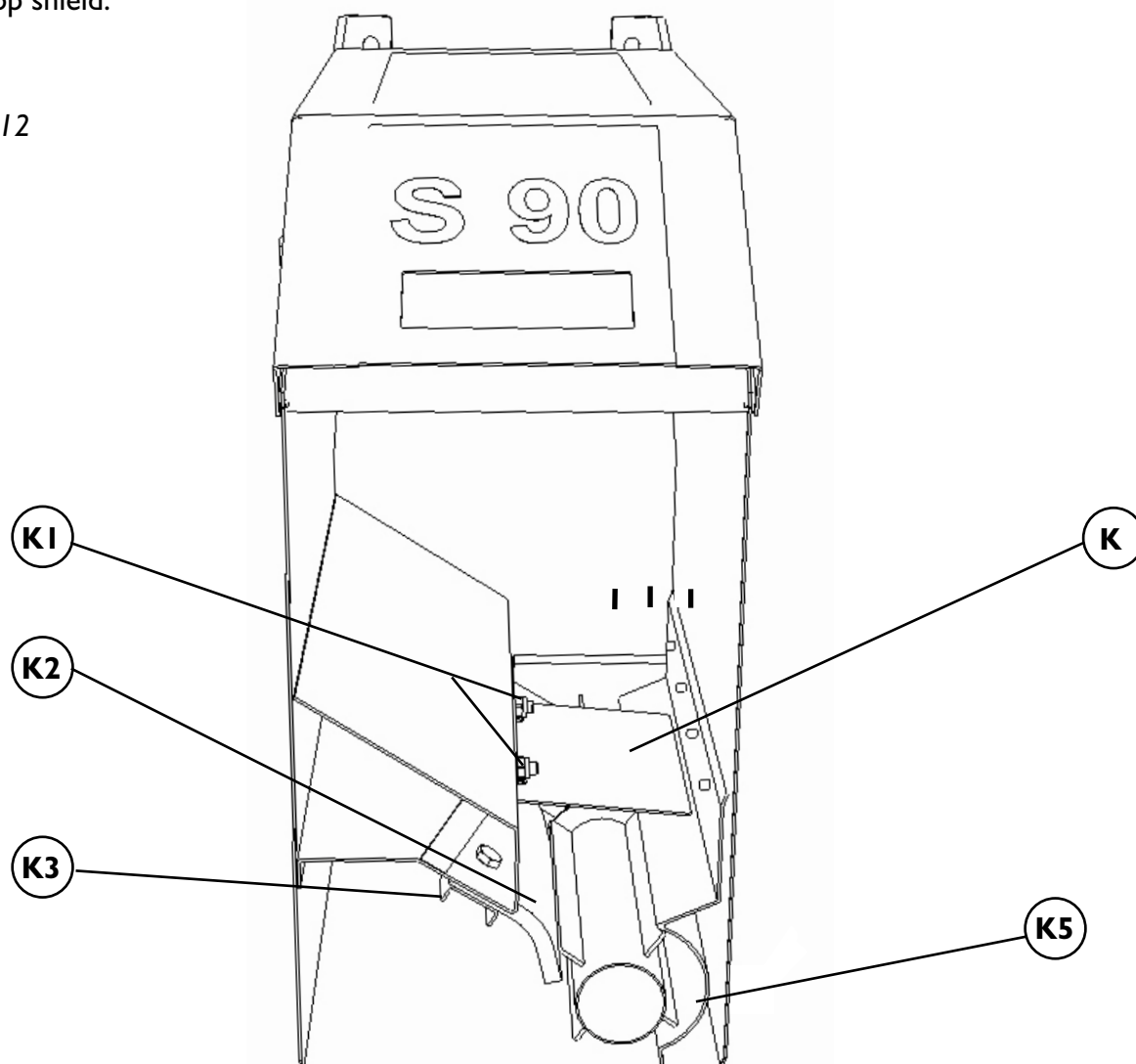
These are not included with the basic package and must be ordered separately.

If sand (e.g. 2-4 mm sandblasting sand) that requires a narrower gap at the bottom of the container is used, this can be enabled by installing an extra “pressure plate”, see **K3** in Fig. 12.

This comes in addition to the the original pressure plate, see **K2** in Fig 12.

K5 – stop shield.

Fig. 12



SIMPLE TROUBLESHOOTING TIPS

IF SAND IS NOT COMING OUT OF THE SAND SPREADER:

Check the delivery system is rotating (roller in the bottom of the container) – look under the container.

CAUTION:

**Do NOT touch the delivery system while it is rotating.
Serious crushing injury may occur.**

Relays and fuses are located in the “ESS 2224” control unit installed next to the vehicle’s battery.

Each motor has two fuses. One is an automatic ETA fuse that engages and disengages automatically. If the red warning lamp goes out when the sand spreader is turned on, this indicates the ETA has disengaged. Turn off the sand spreader immediately. The fuse will reengage after five to ten seconds. Try to restart the sand spreader. If the red indicator lamp/lights is on, this indicates that current is reaching the motor from the control unit.

Each motor also has a secondary 25A fuse. This is pure short-circuit protection that should only trip in the event of faults in the electrical system.

IF THE HEATING IS NOT WORKING:

Check the relays and fuses. Use a 15A fuse.

IF THE SAND SPREADER DOES NOT STOP WHEN THE SWITCH IS TURNED OFF:

Check the relay for the sand spreader. If the relay is burned out or burned so that it will not disconnect – replace the relay.

For comprehensive information call our service line: (+47) 77 09 25 00