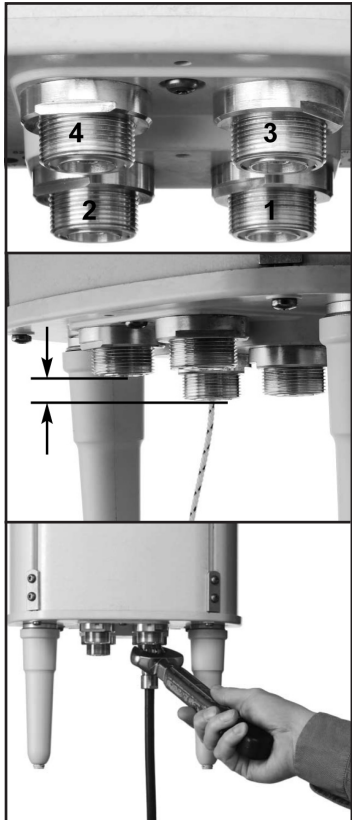


Feeder Line Installation for Panel Antennas with Four Connectors on Two Levels



Step 1

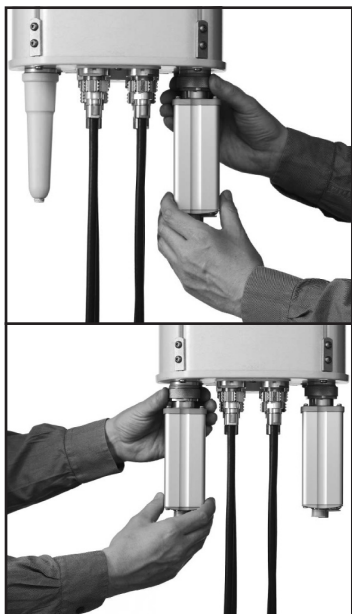
There are four interfaces for feeding the antenna located at the bottom.

To make the installation of the feeder lines and the connectors easier, the interfaces are arranged on two levels.

The feeder line installation sequence is: 1, 2, 3, 4.

Put the connector carefully in place and hand-screw the nut on.

Use a torque wrench to finish the installation (see the 850-10005 Installation Tool).

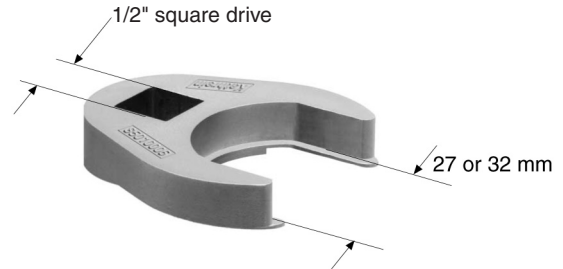


Step 2

After the feeder lines have been installed the remote control units (RCU) can be installed.

See the instructions "Attaching the RCU" for details.

850 10005 Installation Tool



Kathrein's 850 10005 installation tool is suitable for either 27 mm or 32 mm 7/16 DIN connectors.

Tighten the nut within a torque range of 18.5–24.4 lb-ft (25–33 Nm) depending on the connector manufacturer's specifications.

Two tools are included (27 mm and 32 mm).

Fits a standard 1/2 inch drive torque wrench.

⚠ CAUTION

Use of improper tools may damage the interfaces. Kathrein strongly recommends using the 850 10005 Installation Tool with a standard torque wrench to tighten the nuts of the feeder line connectors.

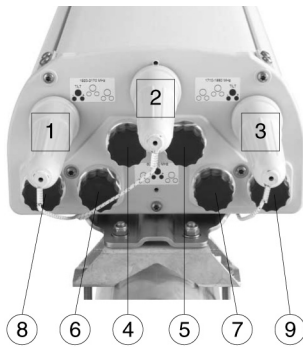
Note

Sealing of cap nuts on correctly installed connectors for additional weather protection is not required. It is not recommended by the connector manufacturers.



All specifications are subject to change without notice.
The latest specifications are available at www.kathrein-scala.com.

Connector Arrangement



RET interfaces (1-3)

Feederline connectors (4-9)

CAUTION

Use of improper tools may damage the interfaces. Kathrein strongly recommends using the 850 10005 Installation Tool with a standard torque wrench to tighten the nuts of the feeder line connectors.

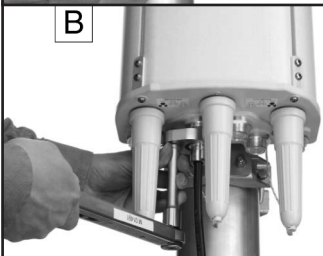
There are six RF connections and three RET interfaces located at the bottom of the antenna.



Step 1

The feeder line installation sequence is: 4, 5, 6, 7, 8, 9.

Put the connector carefully in place and hand-screw the nut on.



Use a torque wrench to finish the installation (see the 850-10005 Installation Tool).



Repeat the operations shown in figures A and B for each feeder line.



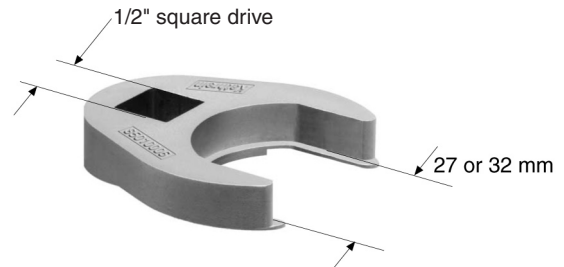
CAUTION

Do not remove the RCU connection covers until the feeder line installation is complete.

The downtilt must be set to 0° before the RCU is installed (see the instructions "Attaching the RCU" for details).

Not following these instructions may damage the downtilt spindle.

850 10005 Installation Tool



Kathrein's 850 10005 installation tool is suitable for either 27 mm or 32 mm 7/16 DIN connectors.

Tighten the nut within a torque range of 18.5–24.4 lb-ft (25–33 Nm) depending on the connector manufacturer's specifications.

Two tools are included (27 mm and 32 mm).

Fits a standard 1/2 inch drive torque wrench.



Step 2

After the feeder lines have been installed the remote control units (RCU) can be installed.

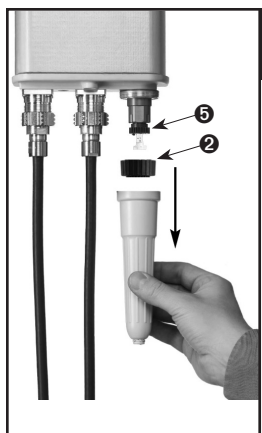
The RCU installation sequence is: 1, 2, 3.

See the instructions "Attaching the RCU" for details.

Note

Sealing of cap nuts on correctly installed connectors for additional weather protection is not required. It is not recommended by the connector manufacturers.

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Step 1

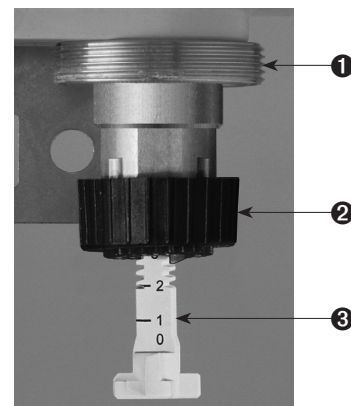
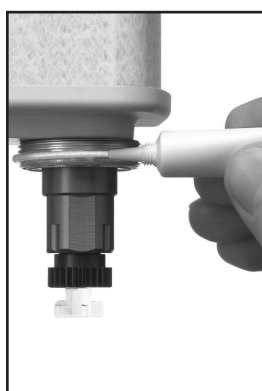
Remove the protective downtilt adjustment cap completely from the antenna.

Remove the black locking ring **2** by pulling it downward.

Check the phase shifter for proper function by turning the gear wheel **5**. The phase shifter will go smoothly between minimum and maximum tilt when functioning properly.

Reset the downtilt to 0 degrees.

- 1** Threaded attachment fitting for the downtilt adjustment cap and the RCU.
- 2** Locking ring.
- 3** Downtilt adjustment spindle with integrated downtilt degree scale.
- 4** Antenna tilt control housing.
- 5** Gear wheel for the RCU.

Step 2

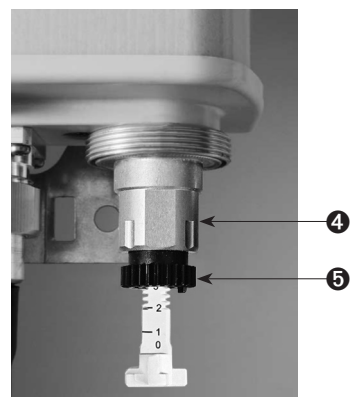

Clean the thread surface.

Apply the mounting-paste evenly onto the full circumference of the thread as illustrated in the figure.

⚠ CAUTION

Avoid ingestion of mounting-paste or contact with eyes. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Avoid long-term contact with skin. In case of contact with skin wash off with soap and water.

For further information please read the 'Safety data-sheet (91/155 EEC), Anti-Seize 'High-Tech' Assembly Paste different packing sizes' by company WEICON GmbH & Co. KG, Königsberger Str. 225, D-48157 Münster, <http://www.weicon.de>

Step 3

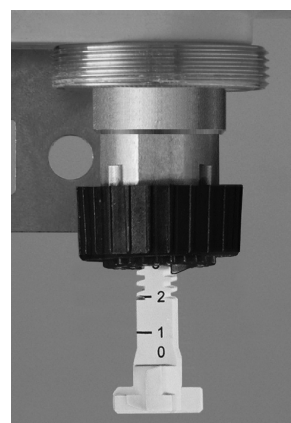
Push the attachment nut of the RCU down towards the RCU housing.

Place the RCU carefully over the adjustment spindle **3**. Be sure the flat side of the spindle is aligned with the flat side of the antenna tilt control housing **4**.


Carefully push the RCU onto the antenna until it is firmly seated.

⚠ CAUTION

The RCU must be kept in vertical alignment with the antenna during installation or the downtilt adjustment spindle **3 may be damaged.**



To set the downtilt angle exactly you must look horizontally at the scale. The lower edge of the gear wheel must be used for alignment purposes.



Step 4

Hand tighten the RCU attachment nut (41 mm).


Torque setting: 11 lb ft (15 Nm)

Connect the RCU control cable.

⚠ CAUTION

In cases where a mechanical downtilt is installed do not set the mechanical tilt more than 14 degrees or the unit may be damaged.

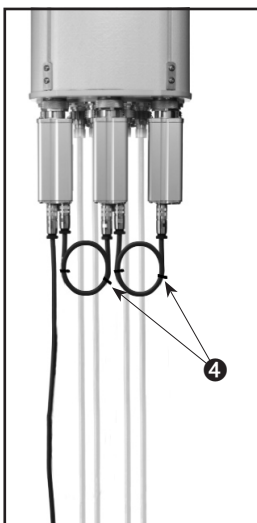
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Step 1

Connect a control cable to the daisy chain input ❶ on the RCU.

If the daisy chain output is not used, do not remove the daisy chain output protection plug.



Step 2

To use the daisy chain option.

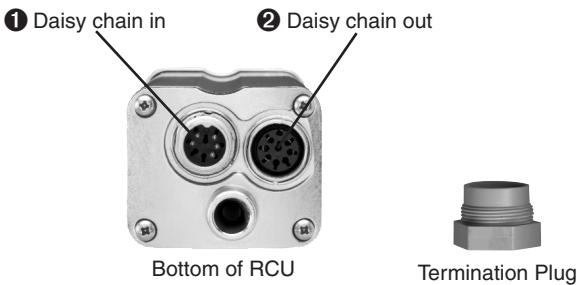
Remove the daisy chain output protection plug.

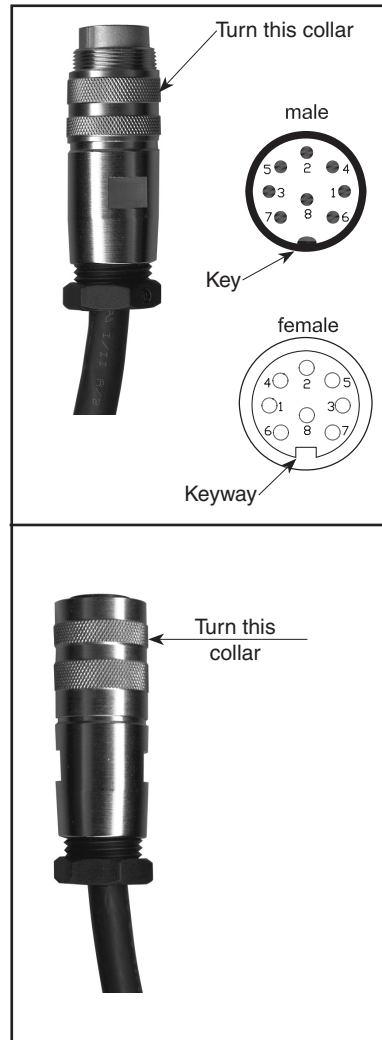
Connect a control cable to the daisy chain output ❷ on the RCU.

Connect the other end of the control cable to the daisy chain input ❶ on the next RCU.

Do not remove the daisy chain termination plug from the last RCU device.

Dress cables using black UV-resistant cable ties ❹.





Turn this collar

male

female

Key

Keyway

Turn this collar

⚠ CAUTION

When installing or removing cables, turn **ONLY** the threaded collar indicated, not the body of the connector. Rotating the connector body can result in permanent damage to the connector and the device being installed. Note that the connectors have keyways which must be carefully aligned before insertion. Insert the connector fully until well seated before tightening.

Hand tighten connectors (4 to 6 in-lb).

Avoid tightening connectors with wrenches or pliers.

Over tightening connectors may permanently damage the RCU.

Dual Tower Mount Amplifier



Remote Control Signal Splitter



Lightning Protection Device



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