**GSS**

Grundig SAT Systems

# STC 160 Head-End Station
# SAT IF input distributor

## SID 162



**Notes on the Assembly Instructions.**
As well as this supplementary Assembly Instructions, the Assembly Instructions for the STC 160 apply.

CE

# Contents

# 1   Safety regulations

⚠️

- Assembly, installation and servicing must be carried out by an authorised electrician.
- Switch off the operating voltage of the system before beginning with assembly or service work or pull out the mains plug of the head-end station.
- Do not perform installation and service work during thunderstorms.
- Ensure that the device is adequately ventilated.
- Avoid short circuits!

**For further information please read the safety regulations listed in the assembly instructions for the STC 160 head-end station which pertain to this module.**

# 2   General information

### Scope of delivery

1 SAT IF input distributor SID 162
8 SAT cables
1 CD (assembly instructions)
1 Brief Assembly Instructions
  Mounting material

### Technical data

The requirements of the following are met:
73/23/EEC, 89/336/EEC
The product fulfils the guidelines and standards for CE labelling.

| | |
|---|---|
| Frequency range: | 950 … 2150 MHz |
| Decoupling of the outputs: | typ. 20 dB |
| Inputs: | 2 F sockets |
| Input impedance: | 75 Ω |
| Loop through output: | 1 F socket |
| Outputs: | 6 + 4 F sockets |
| Output impedance: | 75 Ω |
| Loss ⒟ —> Ⓔ (s. Fig. 2): | 9 … 14 dB |
| Loop through loss ⒟ —> Ⓒ: | typ. 5 dB |
| Loss Ⓑ —> Ⓕ: | 9 … 12 dB |
| LNB operating voltage supply: | 12 V / ≤ 800 mA total |

**Description**

The SAT IF distributor SID 162 is equipped with two SAT IF inputs, one loop-through output and 10 SAT IF outputs. This enables to distribute two reception areas to 4 and 6 SAT IF outputs. Using the loop-through output the reception area 1 can be distributed to the 10 outputs. The F sockets of both reception areas are marked with different colours.
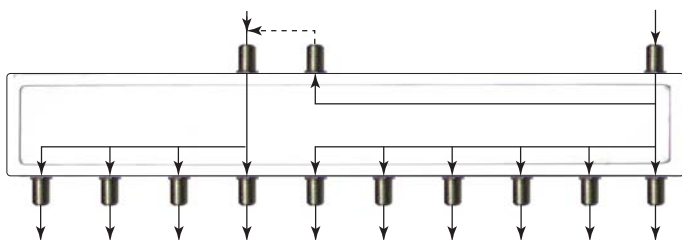


*Fig. 1*

If the loop-through output is not used it must be terminated using the terminator supplied. The DC power feed of 12 V / ≤ 800 mA is used for the power supply of the LNBs connected.

The SAT IF distributor SID 162 is designed exclusively for use in the STC 160 head-end station.
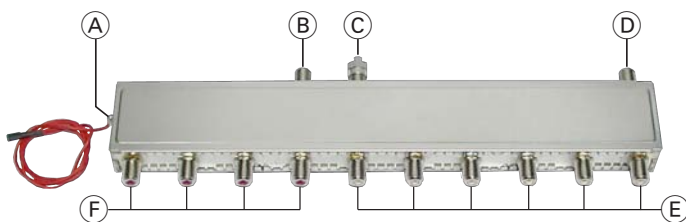
## 3 Overview



*Fig. 2*

Ⓐ LNB power connection
Ⓑ Input 2
Ⓒ Loop-through output of input 1 Ⓓ with terminator

Ⓓ Input 1
Ⓔ Outputs of input 1 Ⓓ
Ⓕ Outputs of input 2 Ⓑ

## 4   Installing the SAT IF input distributor

⚠ **Before installing or changing a module or accessory, switch off the head-end station or unplug the power cable from the mains power socket.**
**Installing the SAT IF input distributor take care that no cables are squeezed off or injured.**

- Remove the front cover and the base plate of the STC 160 head-end station (see STC 160 assembly instructions).
- Insert the SAT IF input distributor ① above the output collector ② according to fig. 3 so that the LNB power connection Ⓐ is facing the control panel.
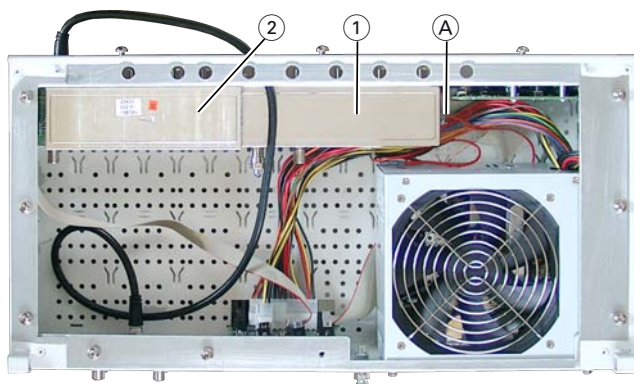


*Fig. 3*

- Fasten the outer sockets of the SAT IF input distributor ③ according to fig. 4 with two nuts and lock washers put under each.
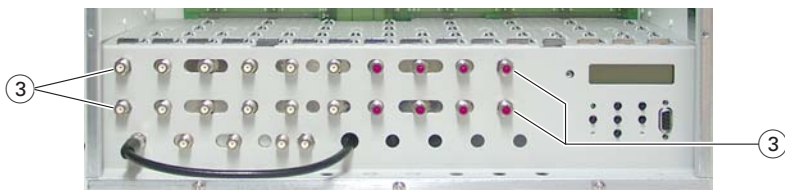


*Fig. 4*

⚠ **Tighten the nuts until the teeth on the lock washers have penetrated the exterior coating and a good connection is made between the housing and the SAT IF input distributor.**

# 5    Connecting the SAT IF input distributor

## 5.1    Connecting the HF connections

- Connect the outputs Ⓔ and Ⓕ (fig. 2) to the appropriate inputs of the modules.

### Using one reception area (loop-through mode)

- Connect input Ⓓ of the SAT IF input distributor with one of the pre-installed F terminals ④ in the rear wall of the head-end station (fig. 5) using a HF cable made on-site (length approx. 30 cm).
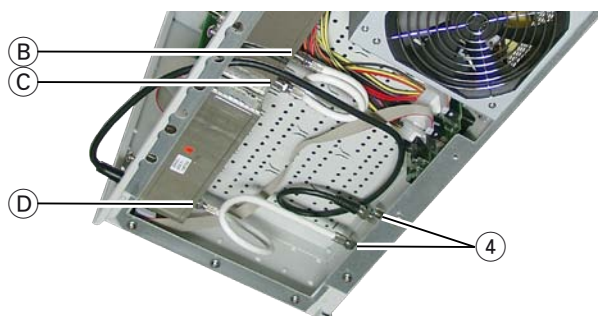- Connect the loop-through output Ⓒ with input Ⓑ using a HF cable made on-site (length approx. 30 cm).



*Fig. 5*

### Using two reception areas

- Connect inputs Ⓑ and Ⓓ of the SAT IF input distributor with the appropriate pre-installed F terminals ④ in the rear wall of the head-end station (fig. 6) using HF cables made on-site (length approx. 30 cm).
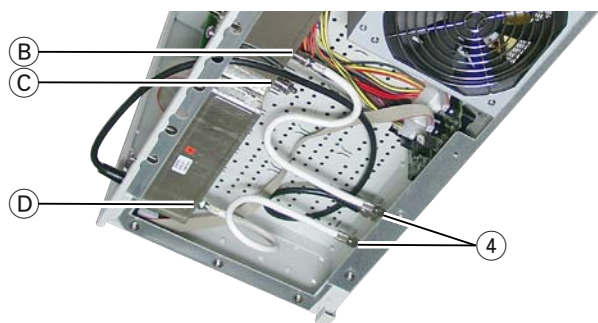- Terminate the loop-through output Ⓒ with the terminator.



*Fig. 6*

## 5.2 Connecting the power supply

- Connect plug ⑥ of the cable of the LNB power connection Ⓐ (fig. 7) to one of the contacts "LNB power supply" (12 V / 800 mA total).
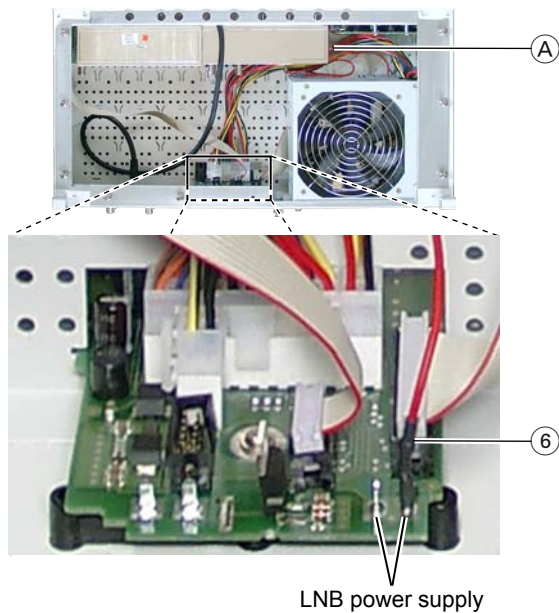


LNB power supply

*Fig. 7*

## 6    Final procedures

⚠  **After installing the head-end station, retrofitting accessories or installing modules it is necessary to tighten all cable connections, F terminals and cover screws in order to maintain compliance with current EMC regulations and to ensure a reliable operation.**

- **Securely tighten the cable connections (F connector) using an open-ended spanner (spanner gap 11 mm).**

- Program the modules connected and the head-end station if necessary.

- Position the breakthroughs in the base plate above the fastening screws ② (fig. 8).
- Push the base plate in direction of the arrow and lock it with the locking screw ①.
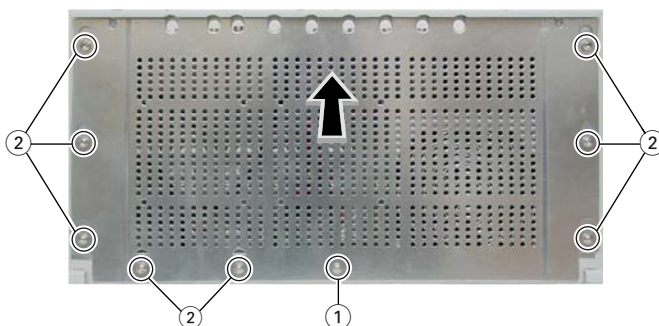- Tighten the fastening screws ②.

*Fig. 8*

- Tighten the nuts of retrofitted F terminals if applicable.
- Mount the front cover (see STC 160 assembly instructions).