Assembly Instructions

GSS

Grundig SAT Systems

STC 160 Head-End Station
RF output collector 8 to 1

HOC 168
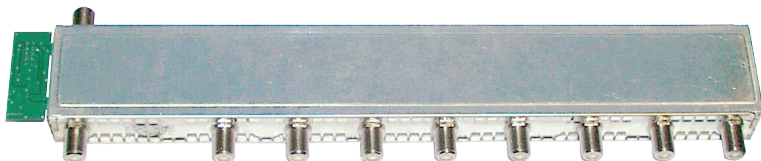
Notes on the Assembly Instructions.
As well as this supplementary Assembly Instructions, the Assembly Instructions for the head-end station apply.

$C\!\!\epsilon$

CONTENTS

1 SAFETY REGULATIONS

⚠️
- The standards EN/DIN EN 50083 resp. IEC/EN/DIN EN 60728 must be observed.
- Do not perform installation and service work during thunderstorms.
- Assembly, installation and servicing should be carried out by authorised electricians.
- Switch off the operating voltage of the system before beginning with assembly or service work.
- Avoid short circuits!
- Observe the relevant standards, regulations and guidelines on the installation and operation of antenna systems.
- To ensure electromagnetic compatibility, make sure all connections are tight and the covers are screwed on securely.
- No liability is accepted for damage caused by faulty connections or inappropriate handling of the device.

⚠️ Check the head-end station according to the safety instructions listed in their assembly instruction.

Take precautions to prevent static discharge when working on the device!

Electronic devices should never be disposed of in the household rubbish. In accordance with directive 2002/96/EC of the European Parliament and the European Council from January 27, 2003 which addresses old electronic and electrical devices, such devices must be disposed of at a designated collection facility. At the end of its service life, please take your device to one of these public collection facilities for proper disposal.

2 GENERAL INFORMATION

2.1 SCOPE OF DELIVERY

1 RF output collectorHOC 168
1 Brief Assembly Instructions

2.2 Meaning of the symbols used

⚠ Important note

• Performing works

2.3 Technical data

The requirements of the following are met:
2006/95/EC, 2004/108/EC
The product fulfils the guidelines and standards for CE labelling (page 9).

Unless otherwise noted all values are specified as "typical".

Frequency range: .... 40.0 ... 870.0 MHz
Amplification:... 18 dB
Output level: .... max. 101 dBµV
Adjustment range of the electronic RF level regulator:................0 ... –31 dB
RF inputs:.. 8 F sockets
Input impedance:... 75 Ω
RF output: .... 1 F socket
RF test output (-20 dB): .... 1 F socket
Output impedance:.. 75 Ω

2.4 Description

The active RF output collector HOC 168 has 8 RF inputs, one RF output and one RF test output (-20 dB). The RF output collector collects the output signals of the modules´ modulators and provides them via the output socket for the cable network.
Via the "**SETUP**" menu the master output level is adjustable to the value needed for the cable system.
The RF output collector HOC 168 is designed exclusively for use in the STC 160 head-end station (from serial no. 13039, 09/2007 on).
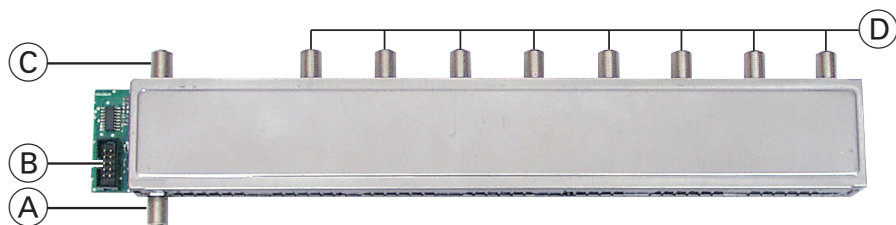
3 OVERVIEW

Fig. 1

A   Output
B   Connector block
C   Test output (-20 dB)
D   Inputs

⚠️ **Before installing or changing a module or accessory, switch off the head-end station or unplug the power cable from the mains power socket.**

- Remove the front cover and the base plate of the STC 160 head-end station (see STC 160 assembly instructions).
- Connect the ribbon cable ③ (fig. 4, part of the packing contents of the head-end station) to the connector block Ⓑ (fig. 1) of the RF output collector HOC 168.
- Connect the other end of the ribbon cable to the backplane Ⓔ.
- Connect the output cable ① (fig. 4, part of the packing contents of the head-end station) to the output Ⓐ of the RF output collector.
- Insert the other end of the output cable in one of the openings (knock-outs) in the rear panel of the head-end station Ⓕ and tighten it.

Fig. 4

- Mount the RF output collector HOC 168 to the position in the head-end station according to fig. 4.
- Fasten the outer sockets of the RF output collector ② (Fig. 5) with two nuts and lock washers put under.
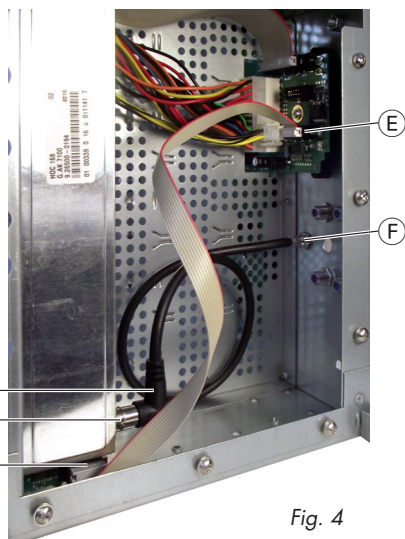

Fig. 5

⚠️ **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 RF output collector.**

- Connect the RF outputs of the modules to the inputs of the RF output collector Ⓓ (fig. 5).
- Connect the antenna test receiver to the test output Ⓒ of the RF output collector (fig. 5).
- Switch on the head-end station.
- The "Select module / channel strip" – "**SETUP BE160**" menu appears in the display. Activate this menu by repeatedly pressing △▽ if needed.
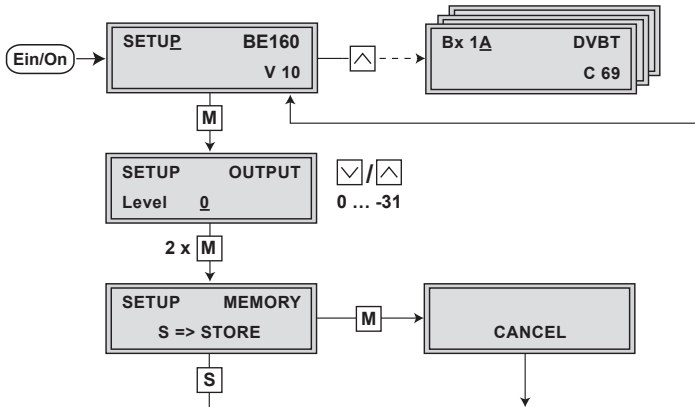
- Press the **M** button.

> —> The "Set output level" – "**OUTPUT   Level**" menu is activated.

- Using the △▽ buttons, set the RF output level as required for the cable system.
- Press the **M** button.

> —> The "Store data" – "**MEMORY**" menu is activated.

- All programmed data is saved by pressing the **S** button. You will be returned to the menu item "Select module / channel strip" – "**SETUP BE160**".
- By pressing the **M** button, you will be returned to the menu item "Select module / channel strip" – "**SETUP BE160**" **without** saving the programmed data.

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 width 11 mm).**
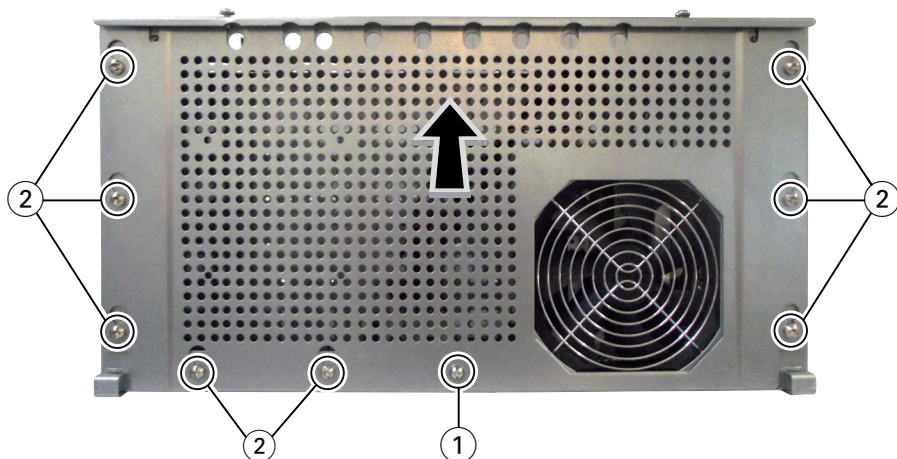

Fig. 6

- Position the breakthroughs in the base plate above the fastening screws ②
  (fig. 6).
- Push the base plate in direction of the arrow and lock it with the locking
  screw ①.
- Tighten the fastening screws ②.
- Tighten the nuts of retrofitted F terminals if applicable.
- Mount the front cover (see STC 160 assembly instructions).

CE - Declaration of Conformity

GSS	Konformitätserklärung Declaration of Conformity 118/ 13	C E

Der Hersteller/Importeur
The manufacturer/importer

GSS Grundig SAT Systems GmbH

Anschrift / Address / Adresse

Beuthener Straße 43, D-90471 Nürnberg, Germany

erklärt hiermit eigenverantwortlich, daß das Produkt:
declare under their sole responsibility that the product:

Bezeichnung / Name /
Description

HF – Ausgangssammler 8 auf 1

Type / Model / Type   **GSS HOC 168**

Bestell-Nr. / Order-No.   **GAK 7100**

folgenden Normen entspricht:
is in accordance with the following specifications:

EN 50083-2:	*2012*	*EN 60950-1*	*2006*
EN 50581:	*2012*	*EN 60950-1 +A11 : 2009*	
		EN 60950-1 +A1 : 2010	

Das Produkt erfüllt somit die Forderungen folgender EG-Richtlinien:
Therefore the product fulfils the demands of the following EC-Directives:

2006/95/EG   **Richtlinie betreffend elektrische Betriebsmittel zur**
Verwendung innerhalb bestimmter Spannungsgrenzen
Directive relating to electrical equipment designed for
use within certain voltage limits

2004/108/EG   **Richtlinie über die elektromagnetische Verträglichkeit**
Directive relating to electromagnetic compatibility

2011/65/EG   **Richtlinie zur Beschränkung der Verwendung bestimmter**
gefährlicher Stoffe in Elektro- und Elektronik Altgeräten
Directive on the restriction of the use of certain hazardous substances
in electrical and electronic equipment

Nürnberg, 12. Juni 2013

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