

MANUEL D'UTILISATION DU GÉNÉRATEUR DE SIGNAUX HP 8444A

FICHE N° 3957

PRÉSERVER
SAUVEGARDER
VALORISER

Période de fabrication : 1975-1999
Fabricant : Hewlett-Packard Company
Domaines : Physique
Sous-domaines : Electronique
Organisme : Université de Rennes
Ville : Rennes
Modèle : HP 8444A
Matériaux : Papier

Description

Ce manuel d'utilisation du générateur de signaux HP 8444A a été édité , en langue anglaise, par Hewlett-Packard en janvier 1975. En une centaine de pages, il présente l'appareil, son installation, les manipulations qu'il peut effectuer et ses performances avec de nombreuses figures et planches.

Utilisation

Ce générateur de signaux doit être connecté à un analyseur de spectres. Sa fréquence est réglable de 500 kHz à 1250 MHz avec une résolution de 1 kHz. Il permet de faire un balayage de fréquence dans cette gamme. Il peut aussi être utilisé pour mesurer des fréquences précisément. Cet appareil faisait partie d'un ensemble de mesures d'une manipulation des travaux pratiques d'électronique de la maîtrise EEA (électronique, électrotechnique, automatique) de la faculté des sciences de Rennes.

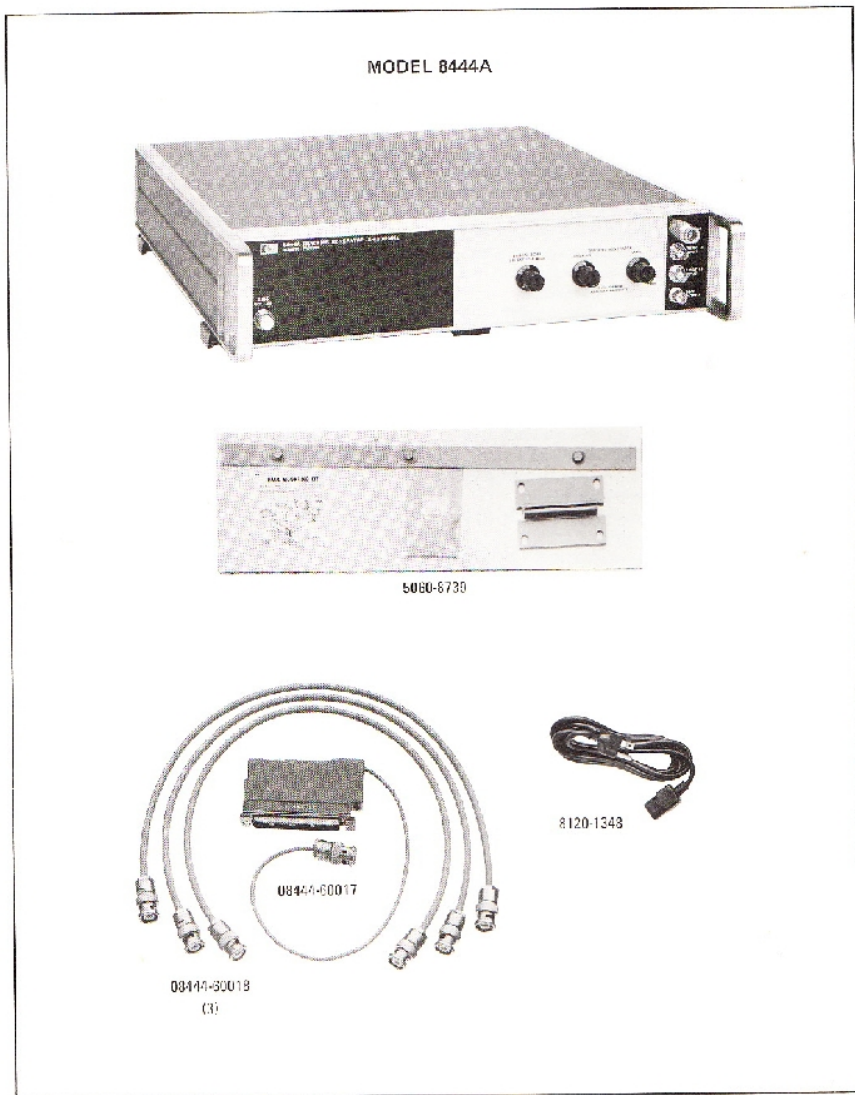
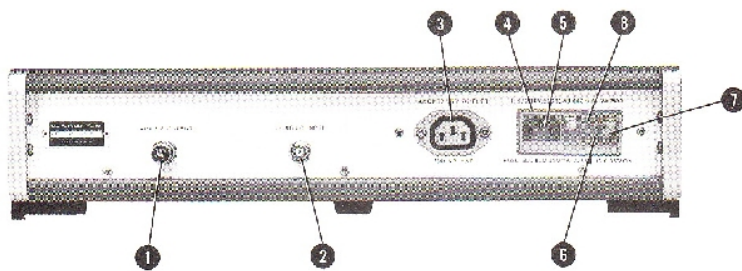


Figure 1-1. Model 8444A Tracking Generator and Accessories

REAR PANEL



1 AUX RF OUTPUT. Type BNC connector — Tracking Generator auxiliary RF output. Same frequency as signal out front panel RF OUTPUT connector. For use with external frequency counter during precision frequency measurements. Terminate in 50 ohms.

2 THIRD LO INPUT. Type BNC connector — Input for Spectrum Analyzer third LO (500 MHz). Normally used with 8555A RF Section. Parallel with front panel THIRD LO INPUT which is normally used with 8554B RF Section.

3 ACCESSORY OUTLET. Line power outlet. Connected to power line module input. Provides an outlet for use by accessory equipment.

Note

See Table 1-4 for IIP part numbers of interconnecting power cords.

4 Line power module. 115/230V, 45–440 Hz.

5 Line input. Connects to external ac power source. Supplies ac power to ACCESSORY OUTLET when connected to external power source.

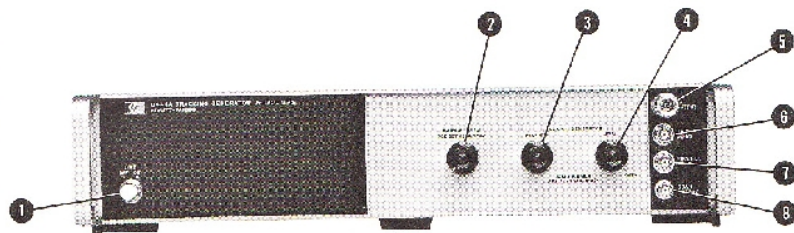
6 115/230V Switch. Line voltage slide switch; controls power supply input connections. Check that switch is set for nominal voltage of ac line. To change setting: remove power cord from line input (5), slide protective cover aside, extract fuse with FUSE PULL (7) and slide switch to desired position. Replace fuse with a fuse of the value indicated for the desired switch position.

7 Fuse extractor and switch lock. Prevents line switch from being actuated until fuse is extracted.

8 Line input fuse. Rating of fuse to be used is marked near line voltage slide switch setting corresponding to nominal ac supply voltage.

Figure 3-2. Model 8444A Tracking Generator Rear Panel Controls and Connectors

FRONT PANEL



1 **LINE -- ON/OFF.** Controls primary power to Tracking Generator. Light glows when switch is energized. Type ALH bulb. For access to bulb, switch to OFF and pull button straight out.

2 **MANUAL SCAN.** Provides manual tuning of Spectrum Analyzer. Controls voltage level at SCAN OUTPUT (8) below. Scan trace on CRT determined by position of MANUAL SCAN control. For MANUAL SCAN operation, connect cable between Tracking Generator SCAN OUTPUT and Spectrum Analyzer SCAN IN/OUT. Set Spectrum Analyzer SCAN MODE switch to KXT. Vary MANUAL SCAN control to tune analyzer through selected SCAN WIDTH.

3 **TRACK ADJ.** Adjusts frequency of 1.55 GHz oscillator in Tracking Generator so that the RF OUTPUT (5) tracks the frequency tuning of the Spectrum Analyzer. Control adjusted for maximum amplitude indication of trace on CRT display. Per turn control provides adjustment of frequency over a range of approximately 4 MHz.

4 **LEVEL.** Adjusts Tracking Generator RF OUTPUT (5) level over range of 0 to -10 dBm. Level calibrated

for 0 dBm at 30 MHz with accuracy of ± 0.5 dB. Set LEVEL control to 0 dBm for calibrated CRT display on Spectrum Analyzer.

5 **RF OUTPUT.** Type N Connector. Tracking Generator RF output connector. Frequency adjusted to track tuning of Spectrum Analyzer by TRACK ADJ (3). Output level adjusted by LEVEL (4).

6 **THIRD LO INPUT.** Type BNC connector -- Input for Spectrum Analyzer third LO (500 MHz). Normally used with 8554B RF Section. Parallel with rear panel THIRD LO INPUT which is normally used with 8555A RF Section.

7 **FIRST LO INPUT.** Type BNC connector -- Input for Spectrum Analyzer first LO (2.05 - 3.8 GHz with 8554L RF Section) (2.05 - 4.1 GHz with 8555A RF Section).

8 **SCAN OUTPUT.** Type BNC connector. Manual tune voltage to Spectrum Analyzer (0 to 10 Vdc). Voltage level controlled by position of MANUAL SCAN (2).

Figure 3-1. Model 8444A Tracking Generator Front Panel Controls, Indicators and Connectors

OPERATING AND SERVICE MANUAL

**TRACKING GENERATOR
8444A
INCLUDES OPTION 058**

SERIAL NUMBERS

This manual applies directly to instruments with serial numbers prefixed 1323A.

With modifications described in Section VII, this manual also applies to instruments with serial numbers prefixed 1083A, 1138A, 1147A, 1208A and 1215A.

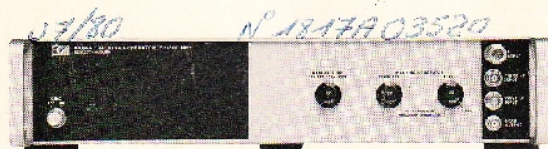
For additional important information about serial numbers, see INSTRUMENTS COVERED BY MANUAL in Section I.

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TRACKING GENERATOR

8444A

THIS MANUAL COVERS A
SPECIAL MODIFICATION
OF THE INSTRUMENT.
SEE INSIDE COVER



HEWLETT  PACKARD

HP 8444A



Pour nous citer :

Base de la Mission nationale de sauvegarde et de valorisation du patrimoine scientifique et technique contemporain, PATSTEC, Manuel d'utilisation du générateur de signaux HP 8444A (Hewlett-Packard Company),
<https://www.patstec.fr/ressources/objets/detail?id=15975>, consulté le 2026-07-28