EMETTEUR - RECEPTEUR PRESIDENT WILSON

CARACTERISTIQUES COMMERCIALES

GÉNÉRALES :

Bandes de fréquences : 26,965 MHz à 27,405 MHz
Nombre de canaux : 40 cx
Ecart entre canaux : 10 KHz
Classes d'Emission : A3E AM - F3E FM
Tension d'Alimentation : 13,2 continu
Impédance d'antenne : 50 Ohms
Impédance microphone : 500 Ohms

EMETTEUR :

Ecart de fréquence : +/- 800 Hz
Puissance d'Emission : 4 Watts crête
Rayonnement non essentiels : inférieurs à 4 nW dans les bandes de radiodiffusion et TV au-dessus de 30 MHz et, inférieurs à 250 nW dans les autres bandes de fréquence.
Puissance émise dans le canal adjacent : inférieure à 20 microwatts.

RECEPTEUR :

Première F.I. : 10,695 MHz
Deuxième F.I. : 4,55 KHz
Impédance du Haut-Parleur incorporé : 16 Ohms
Puissance sortie B.F. : 1,5 W
Sensibilité : meilleure que 12 dB/microvolt (f.e.m)
Sélectivité : par rapport au canal adjacent : meilleure que 60 dB.
# ALIGNEMENT DU SYNTHETISEUR

1/ **EQUIPEMENT NECESSAIRE** :

   a) Fréquencemètre  
   b) Voltmètre continu  
   c) Oscilloscope  
   d) Wattmètre avec charge fictive  
   e) Excursiomètre  
   
   g) Générateur HF  
   h) Voltmètre HF  
   i) Charge 50 Ohms

2/ **PROCEDURE D'ALIGNEMENT** :

<table>
<thead>
<tr>
<th>ORDRE</th>
<th>MODE</th>
<th>REGLAGES</th>
<th>REMARQUES DE REGLAGE</th>
</tr>
</thead>
</table>
| 1     | MODE T X     | L 702    | Relier le Voltmètre continu au VCO - TP 3 R81  
|       | CANAL 40     |          | Ajuster L 702 pour obtenir  
|       |              |          | 4.5 Volts + 0.1 Volt.                                                                 |
| 2     | MODE R X     | L 701    | I D E M 1  
|       | CANAL 40     |          | TP 3 - R 81                                                                         |
| 3     | T X - R X    |          | Vérifier CANAL 1  
|       | 1 - 40 Cx    |          | Tension = 2 Volts                                                                  |
|       |              |          | Vérifier CANAL 40  
|       |              |          | Tension = 4.6 Volts                                                                 |
| 4     | I D E M      |          | Vérifier que la tension HF est compris entre TP 4  
|       |              |          | - 0.8 V crête à crête                                                               |
|       |              |          | - 2 V crête à crête                                                                 |
|       |              |          | *Vérifier que la fréquence est conforme au canal affiché                            |

*Pour fréquence VCO se référer Tableau N°1*

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**SYNOPTIQUE du banc de mesure**

![Diagram](image)
EMPLACEMENT

Fig. 1

PA-243 (TOP VIEW)

L702  L701
**ALIGNEMENT DE L'ÉMETTEUR**

1/ **ÉQUIPEMENT NECESSAIRE** :

- a) Fréquencemètre
- b) Voltmètre continu
- c) Distortiomètre
- d) Wattmètre avec charge fict.
- e) Excursiomètre
- f) Générateur Audio-Fréquence
- g) Générateur HF
- h) Voltmètre HF
- i) Oscilloscope
- k) Charge 50 Ohms

2/ **PROCEDURE D'ALIGNEMENT** :

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<tr>
<th>ORDRE</th>
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<th>REMARQUES DE REGLAGE</th>
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<tbody>
<tr>
<td>1</td>
<td>MODE T X</td>
<td>L 11 - L 14</td>
<td>Ajuster pour obtenir le maximum de déviation sur le Wattmètre.</td>
</tr>
<tr>
<td></td>
<td>CANAL 19</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MICRO</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>500 mV.</td>
<td></td>
<td></td>
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<td>2</td>
<td>CANAL 19 AM</td>
<td>L 11</td>
<td>Tourner le noyau dans le sens des aiguilles d'une montre et ajuster pour obtenir 4 watts.</td>
</tr>
<tr>
<td></td>
<td>TX</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>SANS MODUL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>I D E M</td>
<td>VR 2</td>
<td>Ajuster VR 2 de manière que les 10-premières LED s'éclairent. (les deux dernières, rouges s'éclairent lorsqu'il y a de la modulation).</td>
</tr>
<tr>
<td>4</td>
<td>CANAL 1 FM</td>
<td>VR 6</td>
<td>Relier l'excursiomètre FM Ajuster VR 6 pour obtenir + 3 KHz.</td>
</tr>
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</table>

**SYNOPTIQUE** pour réglage de l'émetteur

![Diagramme d'alignement de l'émetteur](image)
EMPLACEMENT DES POINTS D'ALIGNEMENTS

PA-275 (TOP VIEW)

L11

L14

VR2

TP3

VR6
# ALIGNEMENT DU RECEPTEUR

## 1/ EQUIPEMENT NECESSAIRE :

a) Fréquencemètre  
 b) Voltmètre continu  
 c) Distortiomètre  
 d) Wattmètre avec charge fict.  
 e) Excursiomètre  
 f) Générateur Audio-Fréquence  
 g) Générateur HF  
 h) Voltmètre HF  
 i) Oscilloscope  
 j) Charge 8 Ohms

## 2/ PROCEDURE D'ALIGNEMENT :

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<tr>
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<th>REMARQUES DE REGAGE</th>
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<tbody>
<tr>
<td>1</td>
<td>CANAL 19</td>
<td>L1-L2-L3</td>
<td>* Le Voltmètre A.F. sur le connecteur EXT SP. Relier le générateur au connecteur d'antenne. Ajuster chaque noyau dans l'ordre croissant, pour obtenir le maximum de déviation sur le Voltmètre Audio Fréquence.</td>
</tr>
<tr>
<td></td>
<td>VOLUME MAX</td>
<td>L4-L5-L6</td>
<td></td>
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<tr>
<td></td>
<td>A M</td>
<td>L7-L8</td>
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<tr>
<td></td>
<td>MODUL 90%</td>
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<td>2</td>
<td>CANAL 18</td>
<td></td>
<td>Relier l'oscilloscope à TP 2 R 63</td>
</tr>
<tr>
<td></td>
<td>NB/ANL ON</td>
<td></td>
<td>Ajuster L 651 pour obtenir le maximum de signal.</td>
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<td>A M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>CANAL 19</td>
<td>VR 3</td>
<td>Couper la modulation sur le générateur et mettre l'atténuateur à -67 dBm. 100 μV. Ajuster VR 3 pour que la Led &quot;S 9&quot; s'éclaire.</td>
</tr>
<tr>
<td>4</td>
<td>CANAL 19</td>
<td>VR 1</td>
<td>Oscilloscope branché sur le connecteur EXT SP. Régler l'atténuateur du générateur à 66 dB. Ajuster VR 1 pour que le signal apparaissa sur l'oscilloscope.</td>
</tr>
<tr>
<td></td>
<td>A M</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>VOLUME : MAXI</td>
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<td>SQUELCH : MAXI</td>
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<tr>
<td>5</td>
<td>CANAL 19</td>
<td>L 21</td>
<td>Régler le niveau de sortie à -107 dBm. Ajuster L 21 pour obtenir le maximum de signal.</td>
</tr>
<tr>
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<td>FM</td>
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SYNOPTIQUE pour réglage du récepteur
EMPLACEMENT DES POINTS D'ALIGNEMENTS

PA-275 (TOP VIEW)
### TABLEAU DE FREQUENCE

#### TABLEAU 1 : FREQUENCE CANAUX ET DIVISEUR DU PLL

<table>
<thead>
<tr>
<th>CX</th>
<th>FREQUENCE ANTENNE</th>
<th>DIVISEUR H</th>
<th>FREQUENCE V.C.O. TX</th>
<th>DIVISEUR L</th>
<th>FREQUENCE V.C.O. RX</th>
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<td>27.405</td>
<td>1.671</td>
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IDENTIFICATION DES SEMI-CONDUCTEURS

DIODE

ANODE → CATHODE

1S1555
1N60 AM
HZ-6C1

1N4003
1SV73-EB

DIODE

ANODE → CATHODE

1S1555
1N60 AM
1N4148
1N60 P
HZ-6C1
1N4003
1SV73-EB

TRANSISTOR

MARKING SIDE

E C B
O O O

2SA733A-PB
2SC1675-L
2SC1674-L
2SC941TM-O
2SC945A-Q

MARKING SIDE

B C E

2SC2166-C

MARKING SIDE

B C E

2SC2086-D

MARKING SIDE

E C B

2SC2458-Y

25K192A-BL
Schéma interne des circuits intégrés

M5223L
Schéma interne des circuits intégrés

SM5124A
(PLL, Frequency Synthesizer)

Q IN 1
Q OUT 2
V DD 3
L D 4
D O 5
A 1 6
A O 7
T/R 8
F IN 9
18 V S S
17 P 7
16 P 6
15 P 5
14 P 4
13 P 3
12 P 2
11 P 1
10 P 0

REFERENCE DIVIDER

PROGRAMABLE COUNTER

CODE ROM

PHASE COMPAR-ATORE

LOCK DETECTOR

L7808CV
(REGULATOR)

GNO 2
GND 3
IN 1

INPUT 10

CURRENT GENERATOR

REFERENCE VOLTAGE

ERROR AMPLIFIER

SERIES PASS ELEMENT

OUTPUT 02

SERIAL PROTECTION

STARTING CIRCUIT

THERMAL PROTECTION

INPUT 01
Schéma interne des circuits intégrés

PIN NO. | µPC1242H
---|---
1 | INPUT
2 | Ripple filter
3 | N.F.B.
4 | GND
5 | GND
6 | Out
7 | Boot strap
8 | Vdd

LB1413

Vc1 Vc2 Vc3 VC4 GND Vc5 Amp IN Vcc

AMP OUT IN Vcc

VC1 VC2 VC3 VC4 GND V5 AMP OUT IN Vcc
Schéma interne  AFFICHEUR

LL2953

Description

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<th>PIN NO.</th>
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E11, 14 have polarity. Please follow diagram.

BONE LOCK

MARCH SIDE
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<td>BC003</td>
<td>BOBINE LD-087</td>
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<td>BC004</td>
<td>BOBINE LE-096 / LE-376</td>
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<tr>
<td>BC007</td>
<td>BOBINE LE-187 / LE-377</td>
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<td>BC017</td>
<td>BOBINE LC-072 / LC-218</td>
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<td>BC127</td>
<td>BOBINE LA-029 / LA-445</td>
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<td>BC129</td>
<td>BOBINE LC-074 / LC-215</td>
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<td>BC130</td>
<td>BOBINE LD-168 / LD-240</td>
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Contacter notre S.A.V. concernant nos Conditions, Disponibilités et Tarifs.

* Ces appareils utilisaient sur les anciens modèles en B F : UPC 1182
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VU-MÈTRE
COMMUTATEUR
POTENTIOMÈTRE
QUARTZ

Spécifique à chaque appareil

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