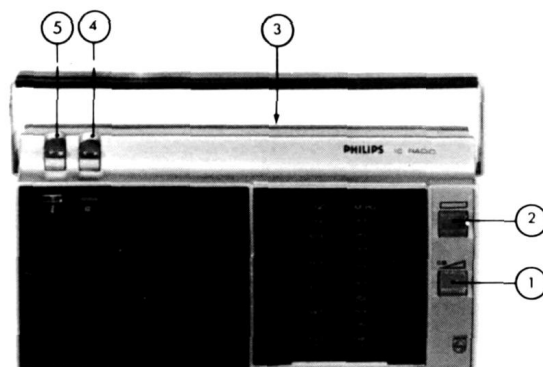


Service manual

RADIO 50IC 103/00S



TRA 3813

Dimensions: 230x120x45 mm

PHILIPS



| | | | |
|--|------------------------|--|---|
| <p>① Volume control + On/off switch Volumeregelaar + Aan/uit-schakelaar Contrôle de volume + Interrupteur Lautstärkeregler + Ein/Aus-Schalter Controlo del volume + Interruttore Control de volumen + Interruptor Volymkontroll + Till/från omkopplare Volumenkontrol + Afbryder Volumkontroll + På/av vender Voimakkuussäädin + On/ei kytin</p> | <p>R407 + SK-A</p> | <p>③ Wave range switch Golfbereikschakelaar Sélecteur de gammes d'onde Wellenbereichschalter Commutatore di scala d'onde Commutador de márgenes de ondas Våglängdsomkopplare Bølgelængde omskifter Bølgevender Aaltoaluekytkin</p> | <p>SK-B</p> |
| <p>② Tuning Afstemming Syntonisation Abstimmung Sintonizzazione Sintonización Afstemning Asemien volinta Avstimmung Avstemning</p> | <p>C406</p> | <p>④ Battery check Batterijcontrole Contrôle de la pile Batteriekontrolle Manopola controllo batterie Comprobación de la pila Batteri-kontroll Batterikontrol Batterikontroll Pariston tarkistus</p> | <p>⑤ Tone control Toonregeling Contrôle de tonalité Tonregler Controllo del tuono Control de tono Tonkontroll Tonekontrol Tonekontroll Sävynsäätö</p> <p>SK-C</p> |

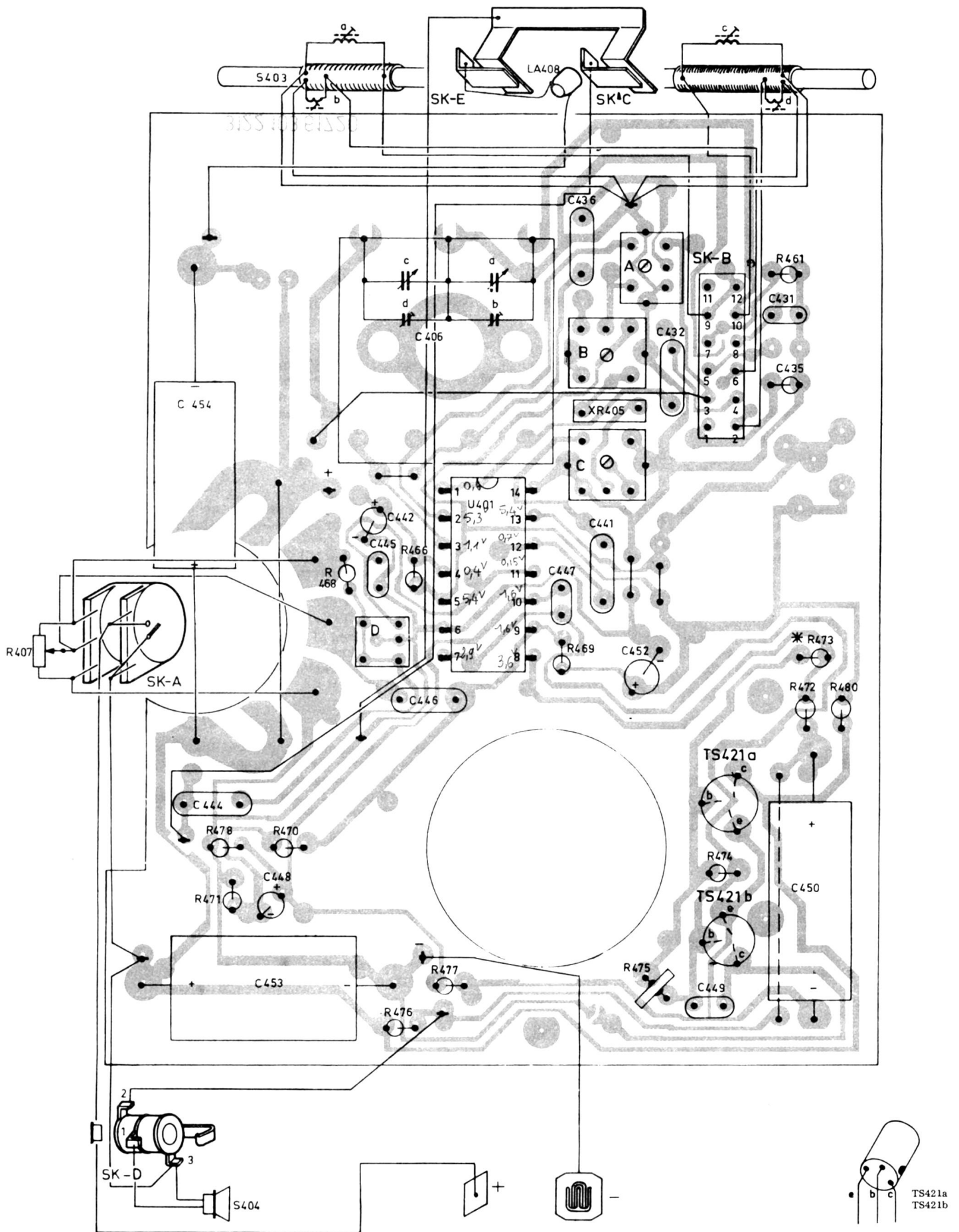
Integrated circuit

U401 - TAA840

Transistors

TS421a - AC127 }
TS421b - AC128 }

| S | 404 403 | | D | | | | B. C. A. | | | | S | | | |
|---|------------------|----------|---------|------|------|----------|----------|----------|--------------|---------|---------|------|----------|---|
| C | 454.444.453.448. | | 440 | 442. | 445. | 446.406 | 447. | 436.441. | 452. | 443. | 432.449 | 431. | 435.450. | C |
| R | 407 | 478.471. | 470.465 | 468. | 476. | 466.477. | 469. | 475. | 474.461.472. | 473.467 | 480 | | | R |



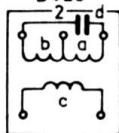
| S | A. C. B | | | | | | | | | | D | | | | | S | | | | |
|---|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| C | 450 | 435 | 431 | 449 | 432 | 443 | 452 | 441 | 436 | 447 | 406 | 446 | 445 | 442 | 440 | 453 | 448 | 444 | 454 | C |
| R | 480 | 467 | 473 | 472 | 461 | 474 | 475 | | 469 | | 477 | 466 | 476 | 468 | 465 | 470 | 471 | 478 | 407 | R |

A
S424



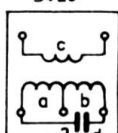
B

S425



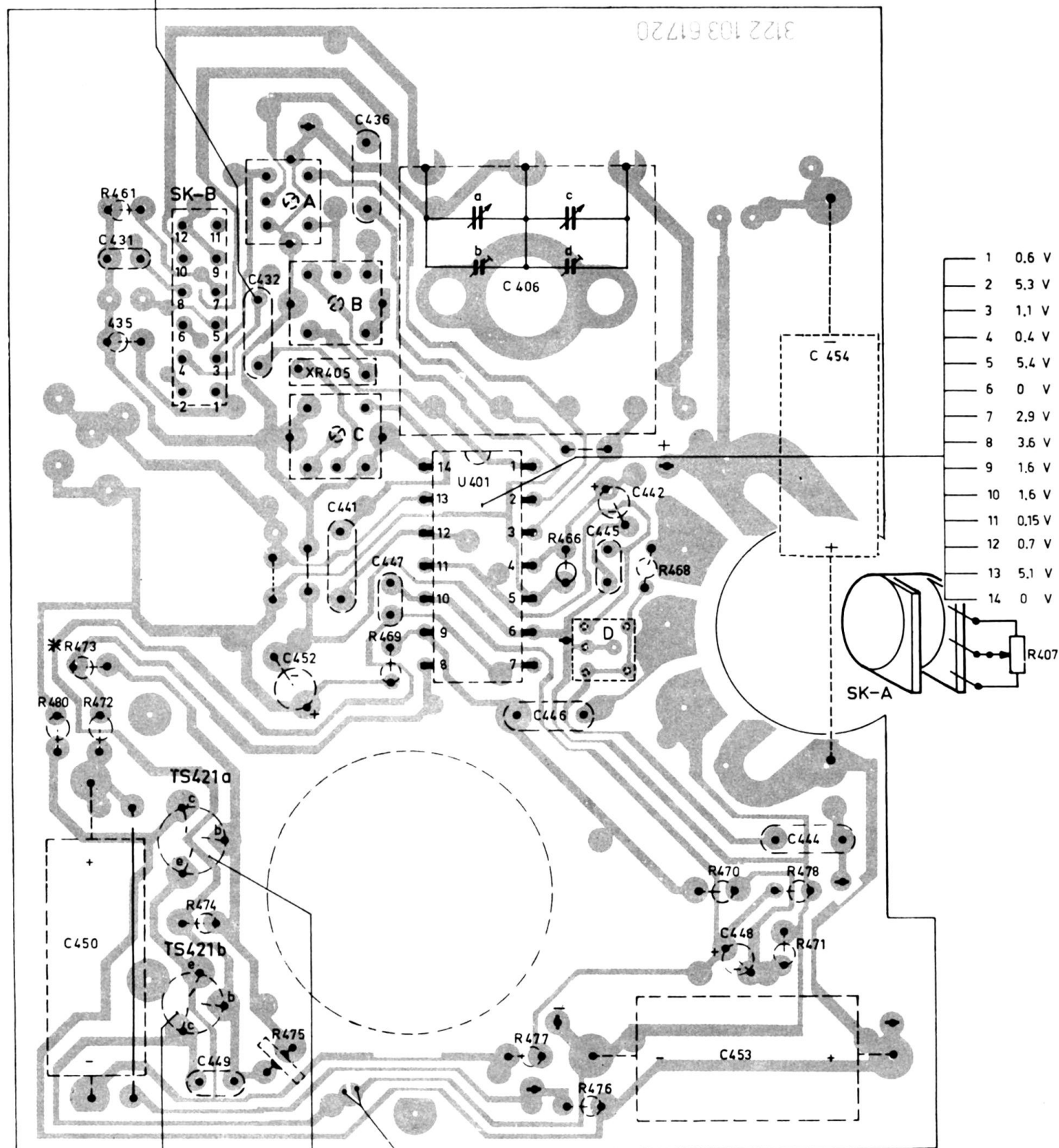
C

S426



D

S427

















| | |
|----|--------|
| 1 | 0.6 V |
| 2 | 5.3 V |
| 3 | 1.1 V |
| 4 | 0.4 V |
| 5 | 5.4 V |
| 6 | 0 V |
| 7 | 2.9 V |
| 8 | 3.6 V |
| 9 | 1.6 V |
| 10 | 1.6 V |
| 11 | 0.15 V |
| 12 | 0.7 V |
| 13 | 5.1 V |
| 14 | 0 V |

E 3 V
B 2.9 V
C 0 V

E 3 V
B 3.2 V
C 6 V

(mA) $I_c = 5 \text{ mA}$
* R473 = 82-120 Ω

TRA 3793

| Wave range |  Signal to |  | Var. cap. |  | Adjust | Indication |
|---|---|---|-----------|---|--|---|
| SK.... | | | | |  |  |
| MW (525-1605 kHz) | 452 kHz via 33 nF |  | max. C |  |   | ① max. |
| LW (150-255 kHz) | 147 kHz |  ② | max. C | |  | max. |
| MW (525-1605 kHz) | 1635 kHz |  | min. C | | C406d | max. |
| Repeat-Herhalen-Recommencer-Wiederholen-Ricominciare-Repřtanse-Repetera-Gentag-Gjenta- Toista | | | | | | |
| LW (150-255 kHz) | 147 kHz |  | max. C | | S403c-d | max. |
| MW (525-1605 kHz) | 550 kHz |  | ③ | | S403a-b | max. |
| | 1635 kHz | | ③ | | C406b | |
| Repeat-Herhalen-Recommencer-Wiederholen-Ricominciare-Repřtanse-Repetera-Gentag-Gjenta- Toista | | | | | | |

(GB)

- ① After trimming the apparatus find the frequency at which the output voltage is maximum, apply this frequency and trim again.
- ② Apply the signal to the ferroceptor via the couple winding.
- ③ Tune the apparatus.

(NL)

- ① Nadat het apparaat afgeregeld is, de frekwentie opzoeken waarbij de uitgangsspanning maximaal is, deze frekwentie toevoeren en opnieuw afregelen.
- ② Signaal via koppelwinding aan ferroceptor toevoeren.
- ③ Apparaat afstemmen.

(F)

- ① Après avoir ajuster l'appareil, rechercher la fréquence à laquelle la tension de sortie est au maximum. Appliquer cette fréquence et régler à nouveau.
- ② Appliquer le signal au ferrocapteur via la spire d'accouplement.
- ③ Accorder l'appareil.

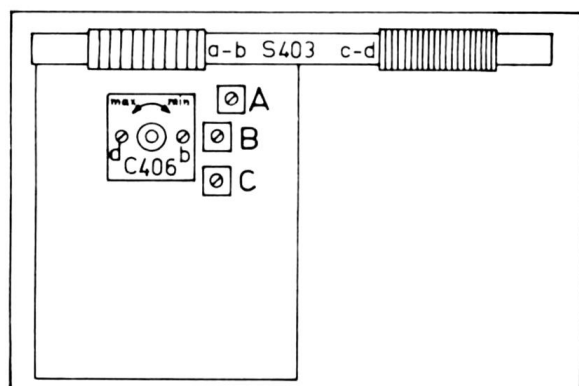
(D)

- ① Nach Abgleich des Gerätes ist die Frequenz mit maximaler Ausgangsspannung aufzusuchen. Diese Frequenz zuführen und erneut abgleichen.
- ② Signal über Kopplungswindung dem Ferroceptor zuführen.
- ③ Gerät abstimmen.

(I)

- ① Dopo aver regolato l'apparecchio, ricercare la frequenza alla quale la tensione di uscita è massima. Applicare la stessa e regolare di nuovo.
- ② Applicare il segnale al ferroceptor via la spira di accoppiamento.
- ③ Sintonizzare.

cudre feno 4822 158 602 72



TRA 3717

(E)

- ① Luego de haber ajustado el aparato, buscar la frecuencia para la cual la tensión de salida es máxima. Aplicar esta frecuencia y ajustar de nuevo.
- ② Aplicar la señal al ferroceptor por medio de una espira de acoplamiento.
- ③ Sintonizar el aparato.

(S)

- ① Efter enförsta trimning sök upp den frekvens vid vilken utspänningen är maximum. Anslut denna frekvens och trimma igen.
- ② Anslut signalen till ferriantennen via en slinga.
- ③ Avstämm mottagaren.

(DK)

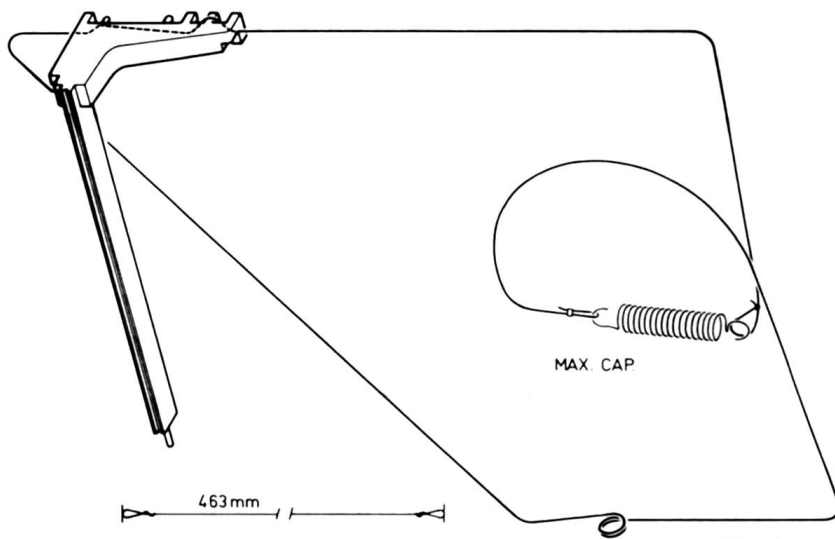
- ① Efter trimning af apparatet opsøges frekvensen ved hvilken udgangsspændingen er maximum.
- ② Tilfør denne frekvens og trim igen.
- ③ Afstem apparatet.

(N)

- ① Etter at trimming er utført stilles apparatet iun på den frekvens sorn gir maksimum utgangsspenning og deretter gjentas trimmingen.
- ② Tilfør signalet till ferroceptoren via en koplingsløyfe.
- ③ Avstem apparatet.

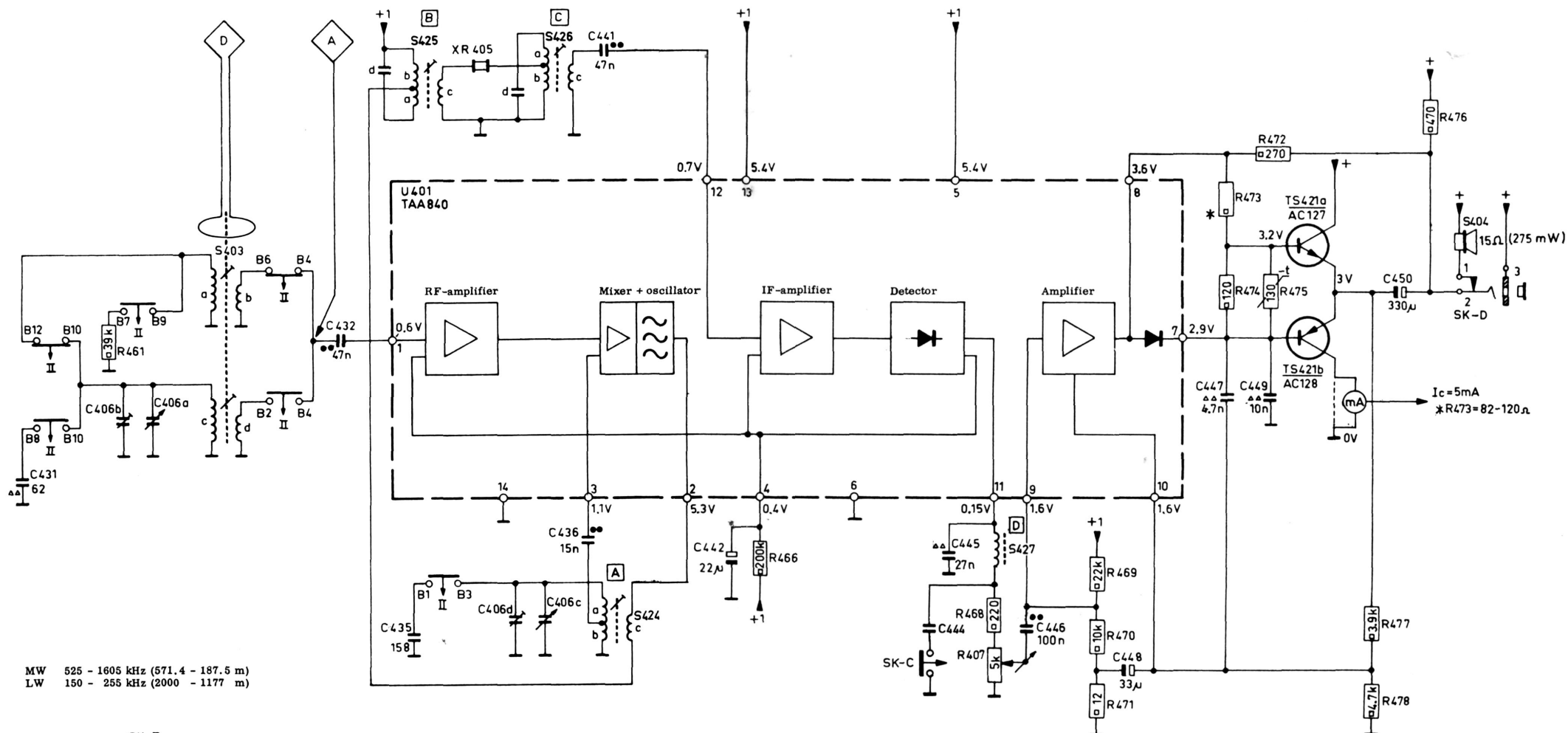
(SF)

- ① Laitteen virityksen jälkeen etti taojuus, joka antaa suurimman läktö jänitteen, tätä taajuutta käyttäen suorita viritys uudelleen.
- ② Vie läkete ferroceptoriiin kytkuikelan kautta.
- ③ Viritä laite.



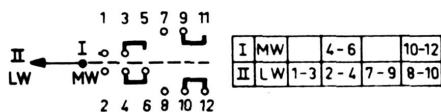
TRA 3792

| | | | | | | | | | | | | | | | | | | | | | |
|---|------|-------------|------|------|------|-------------|------|------|------|------|-----------|-----------|----------------|------|---------------------|------|-------------------------|------|---------------------|--|---|
| S | 403. | | 425. | | 426. | | 424. | | 427 | | | | | | | 404. | | S | | | |
| C | 431. | 406b, 406a. | | 432. | 435. | 406d, 406c. | | 436. | 441. | 442. | | 444, 445. | | 446. | 448. | | 447. | 449. | 452, 454, 453, 450. | | C |
| R | 461. | | | | | | | | 466. | | 468, 407. | | 469, 470, 471. | | 473, 474, 472, 475. | | 480, 477, 478, 476, 481 | | R | | |

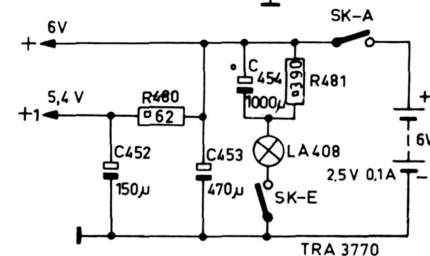
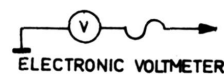


MW 525 - 1605 kHz (571.4 - 187.5 m)
LW 150 - 255 kHz (2000 - 1177 m)

SK-B



- Carbon resistor E24 series 0.125 W 5%
- Plate ceramic capacitor
- Flat-foil polyester capacitor
- Miniature electrolytic capacitor



THE CIRCUIT DIAGRAM HAS BEEN DRAWN IN POSITION MW