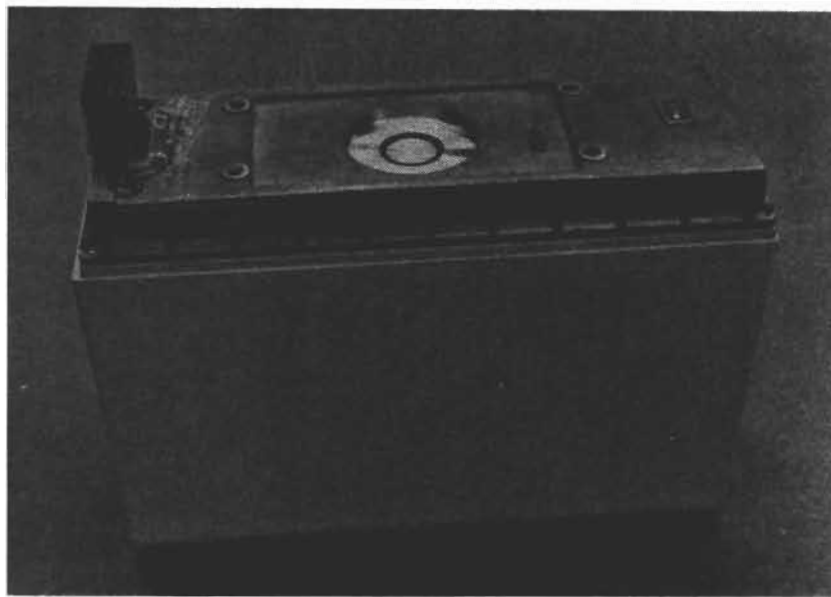


SERVICE MANUAL-UNIT

Practix-C Tank

PEI: 9807 700 30001



This manual contains descriptive information on the equipment identified by the typenumber and production series stated above.
For information on specific applications refer to the System Manual BV25.

IPC: Eindhoven

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1. INTRODUCTION AND TECHNICAL DATA

1.1. PURPOSE

The Practix-C Tank is a High Tension Converter Tank with X-ray Tube and is intended for use in the BV25 mobile surgical stand.

1.2. TECHNICAL DATA

1.2.1. Performance Data

Temperature:

- At 25⁰C ambient temperature, the tank housing (except the mounting plane) without sterile cover will not exceed a temperature of 50⁰ C within a time of 1.5 hours of operation at max. ratings and specified duty cycle.
- Oil temperature is sensed with an NTC resistor.
- For emergency a thermal switch in the tank will interrupt power at 85⁰C ± 5⁰C oil temperature.

Inherent Filtration: 3.0 mm Al

Fluoroscopy:

- 0.6 mm Focus is used.
- Duty cycle at maximum ratings (100 kV - 3 mA): 30 sec on, 120 sec off during 90 minutes, duty cycle 20%.
Maximum continuous "on" time: 105 sec.
- Nominal voltage: 40 - 100 kV
- Tube current : 0.1 - 3 mA
- Average continuous load: 60 W

X-ray tube: FO 14, with double focus and stationary anode.

Radiography:

- 1.8 mm Focus is used.
- Duty cycle at maximum ratings (100 kV - 20 mA): maximum 30 exposures/hour with 3% duty cycle.
- Nominal voltage: 40 - 100 kV
- Tube current : 20 mA for 4.0 sec max.

Input voltage: 140 - 380V, 300 Hz square wave.

Input voltage filament: + 17 V, 600 Hz square wave.

Electrical adaptation:

For the electrical interface of the tank, see the table below:

INTERFACE ON CONNECTOR	MNEMONIC	DESCRIPTION
GAX1:1	FILSM1	Filament transformer small focus 1
:2	FILSM2	Filament transformer small focus 2
:3	NTC1	NTC temperature measuring circuit 1
:4	MAMEAS1	mA measuring circuit 1
:7	ACHVT1	AC voltage for high voltage transformer 1
:8	FILCOM	Filament transformer common
:11	OVPOWER	OV Power
:12	NLEA	Protective earth
:14	FILLA1	Filament transformer large focus 1
:15	FILLA2	Filament transformer large focus 2
:16	NTC2	NTC temperature measuring circuit 2
:17	MAMEAS2	mA measuring circuit 2
:20	ACHVT2	AC voltage for high voltage transformer 2

1.2.2. Dimensions and Weights

For the dimensions of the tank, see drawing sheet Z3-1.
Weight: 14 kg.

1.2.3. IEC Classifications

IEC 601 class I type B AP, IEC 62B, IEC 407.

1.2.4. Applicable Standards

UL187, CSA C22.2, HHS, DIN6811, Röntgenverordnung (Zulassungsschein HH 41/82 Rö), VDE0875, VDE0871, COC1R.

2. INSTALLATION

For installation of the tank, see the instructions in the BV25 System Manual.

3. SETTING TO WORK

For warm-up procedure of the tube, see the BV25 System Manual.

4. CORRECTIVE MAINTENANCE

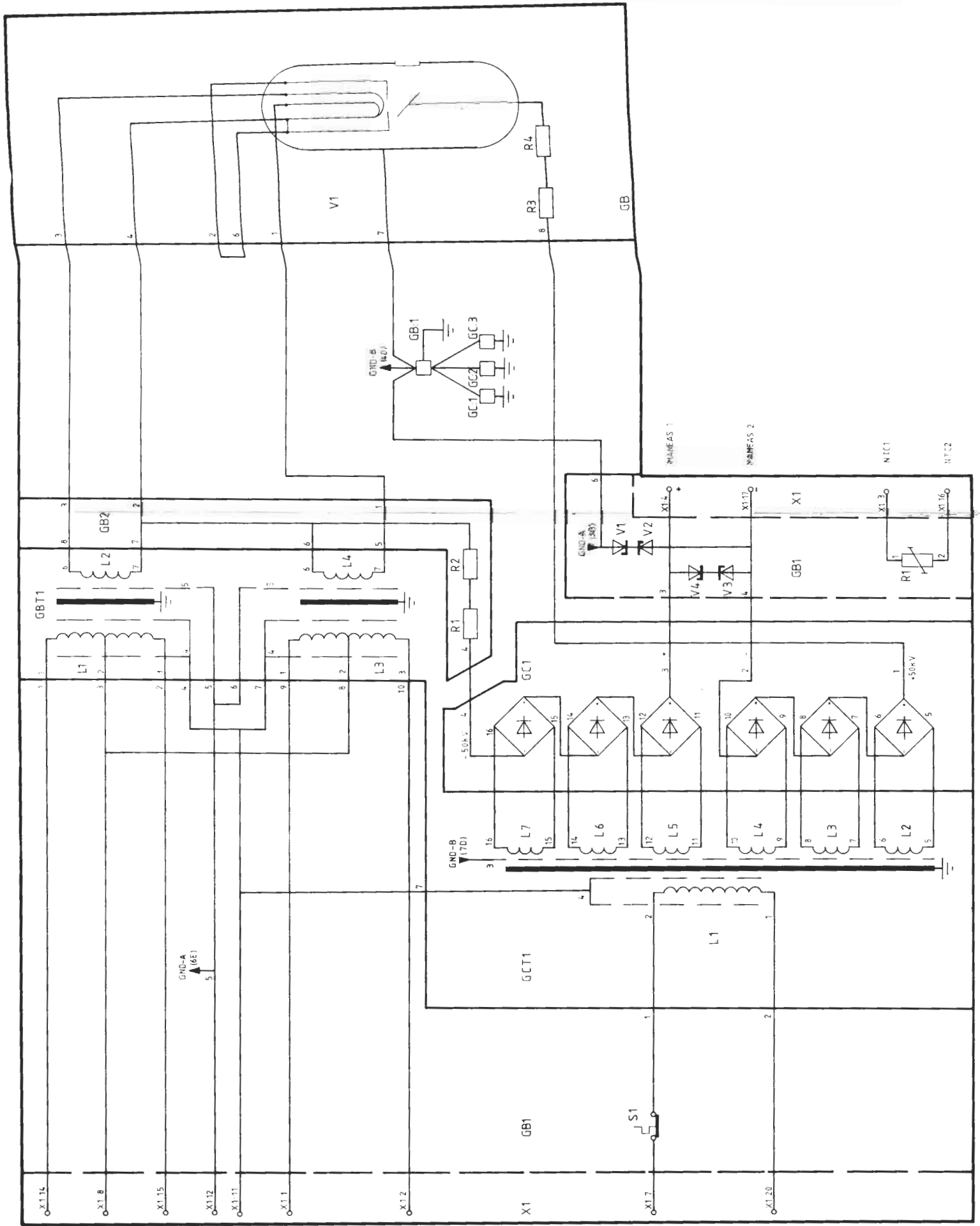
Due to legal prescriptions it is not allowed to exchange the tube.

If the tank is defective, replace it by a new one.

Fit the type number and identification plates, additionally supplied, on the central labeling place marked "I" of the Mobile Stand BV25.

NOTE

After replacement of defective tank, use the package of new tank again for return shipment of defective tank per "Questionnaire" form.



- FILIA1
- FILCOM
- FILIA2
- NLEA
- PWRGND
- FILSM1
- FILSM2
- ACTHT1
- ACTHT2