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DC-200 DC POWER SUPPLY
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The DC-200 Power Supply has been designed to use in conjunction with our FT-200 Transceiver for the mobile operation.

SPECIFICATIONS

Input Voltage:	DC 12V - 14V (Negative Ground)
Input Current:	Receive; 12.5A Transmit; 18A nominal 27A max.
Output Voltage:	700V, 350V, 170V, -110V
Frequency:	1500 Hz
Dimensions:	W.202 x D.224 x H.75 m/m
Weight:	3 kg

INSTALLATION

It is recommended to install the unit avoiding extremely warm places, such as engine room or near heater outlet.
This unit is designed for a negative ground operation, therefore, utmost care is requested when installing in the vehicle.
For the vehicle installation, the supplied power cables should be use and the battery cables run directly to the storage battery for both positive (red cable) and negative (black cable) terminals.

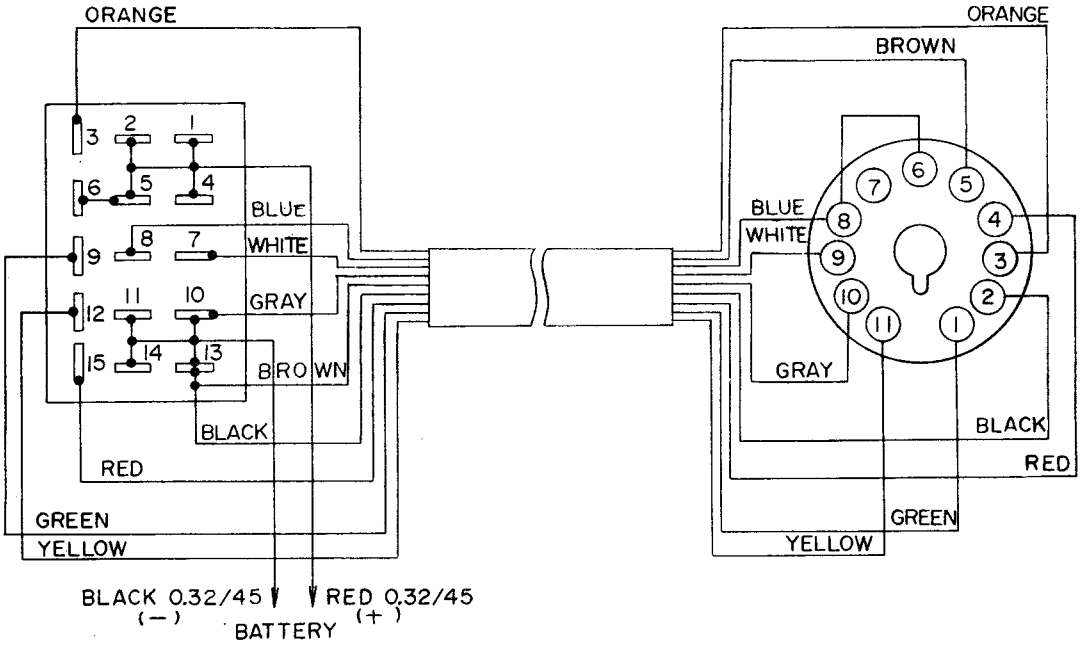
UNDER NO CIRCUMSTANCES, SHOULD THE DC-200 EVER BE OPERATED FROM THF POWER SOURCE WHICH EXCEEDS 14V. COMPLETE DAMAGE TO COMPONENTS MAY HAPPEN WITH EXCESSIVE VOLTAGE.

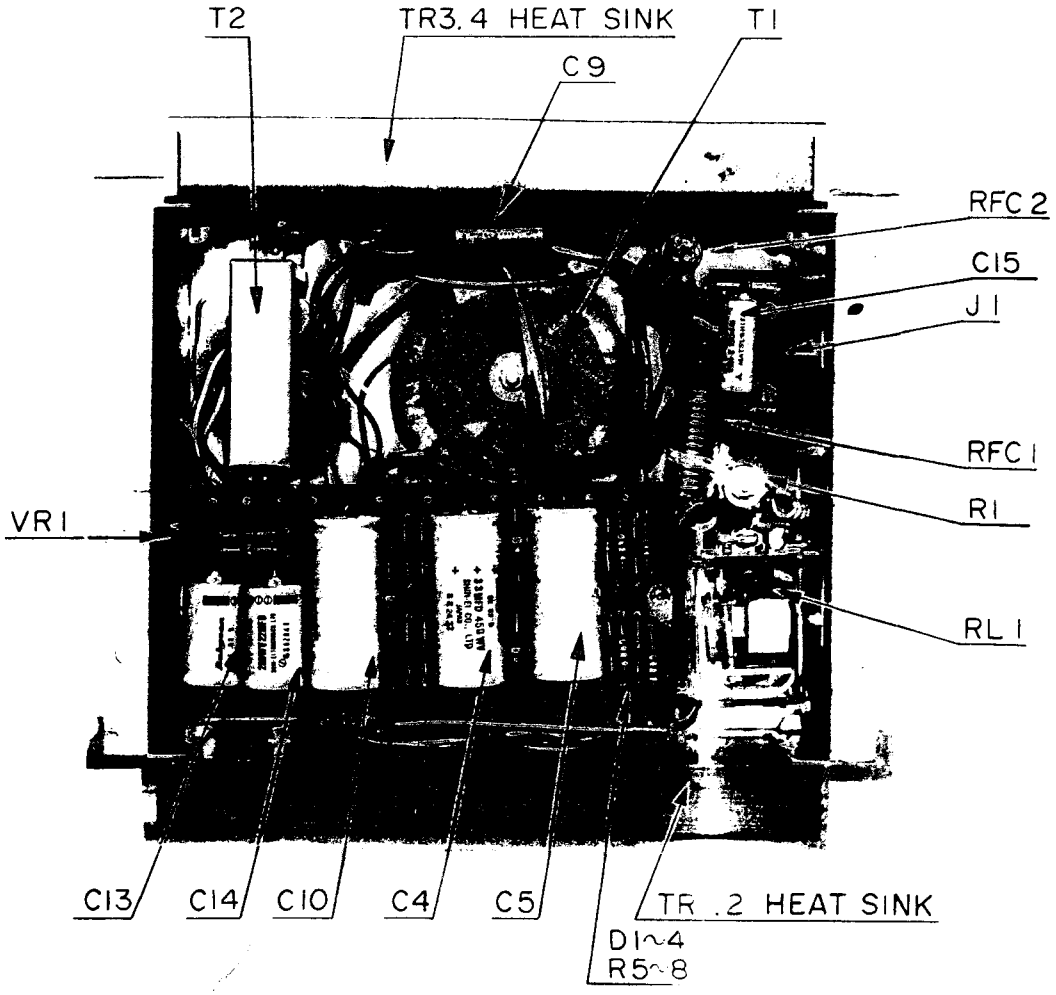
Two fuses, F1 and F2, are used to protect the unit from overload.
The power is controlled by a main power switch of FT-200 Transceiver.
The bias voltage for final tubes of FT-200 Transceiver is adjusted by a potentiometer located on the side wall of DC-200 Power Supply. Remove a cap on the potentiometer shaft for bias adjustment. To adjust the bias voltage, set the transceiver on transmit in SSB modes and adjust a potentiometer VR1 until meter (meter switch IC position) shows 60 mA idle current with no modulation.

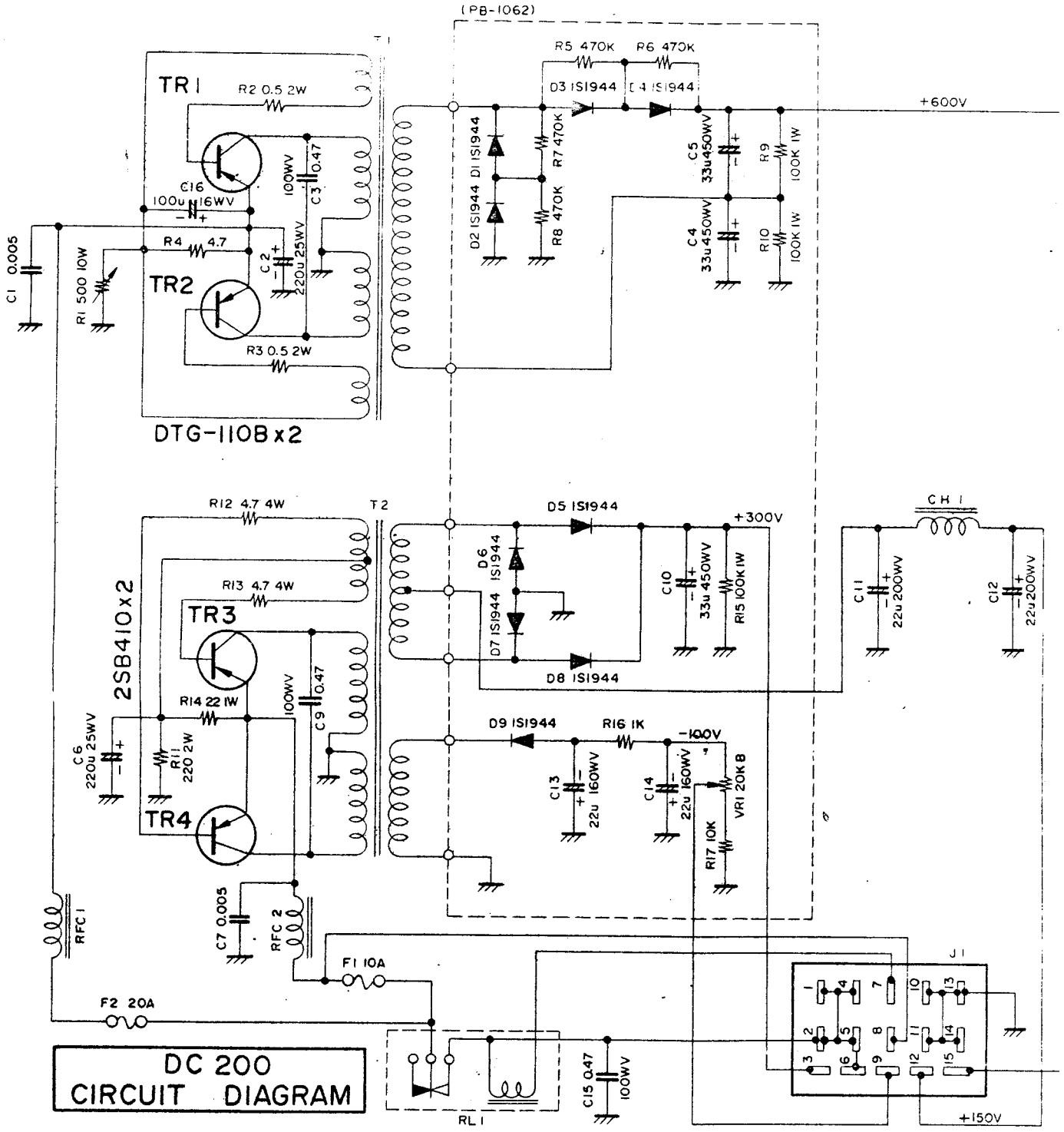
Do not touch the bias potentiometer on FT-200 Transceiver. This potentiometer is adjusted for AC operation, i.e. the FP-200 Power Supply at the factory.

Terminal Voltage

1, 2, 4, 5, 6	DC +12V input
3	+300V
7	DC +12V for power switch
8	DC +12V for heater
9	-100V bias
10, 11, 13, 14	Ground
12	+150V
15	+600V


ORANGE
BLUE
WHITE
GRAY
BROWN
BLACK
RED
GREEN
YELLOW
ORANGE
BROWN
BLUE
WHITE
GRAY
BLACK
RED
GREEN
YELLOW
BLACK 0.32/45
(−)
RED 0.32/45
(+)
BATTERY


T2
TR3.4 HEAT SINK
T1
C9
RFC 2
C15
J 1
RFC 1
R1
VR 1
RL 1
C13
C14
C10
C4
C5
TR .2 HEAT SINK
D1~4
R5~8


(PB-1062)
TR1
R2 0.5 2W
C16
100u 16WV
100WV
C3 0.47
R4 4.7
C2
220u 25WV
TR2
R3 0.5 2W
C1 0.005
R1 500 10W
DTG-110B x2
R5 470K
R6 470K
D3 1S1944
D4 1S1944
+600V
D2 1S1944
D1 1S1944
R7 470K
R8 470K
C5 33u 450WV
C4 33u 450WV
R9 100K 1W
R10 100K 1W
R12 4.7 4W
T2
D5 1S1944
+300V
R13 4.7 4W
TR3
2SB410 x2
D6 1S1944
D7 1S1944
D8 1S1944
C10 33u 450WV
R15 100K 1W
CH 1
C11 22u 200WV
C12 22u 200WV
R14 22 1W
C9 0.47
100WV
C6 220u 25WV
R11 220 2W
TR4
D9 1S1944
R16 1K
-100V
C13 22u 160WV
C14 22u 160WV
VR1 20K B
R17 10K
C7 0.005
RFC 2
RFC 1
F1 10A
F2 20A
J1
C15 0.47 100WV
RL1
+150V
DC 200
CIRCUIT DIAGRAM