

To operate the unit from DC power:

1. Connect a 2-conductor power cable to the EXT 12V INPUT (+) and (-) terminals (27) on the rear of the unit. If red and black conductors are used, connect the black wire to the (-) terminal and the red wire to the (+) terminal.
2. Connect the other end of the power cable to the power source. Observe correct polarity; the unit is protected against reverse polarity damage, but will not operate.
3. POWER indicator (8) will light when the DC power source is on. POWER switch (7) functions only for AC power and cannot be used to turn off the unit when operating from DC power.
4. If using an adjustable power source such as power supply, set it to 13.8 volts.

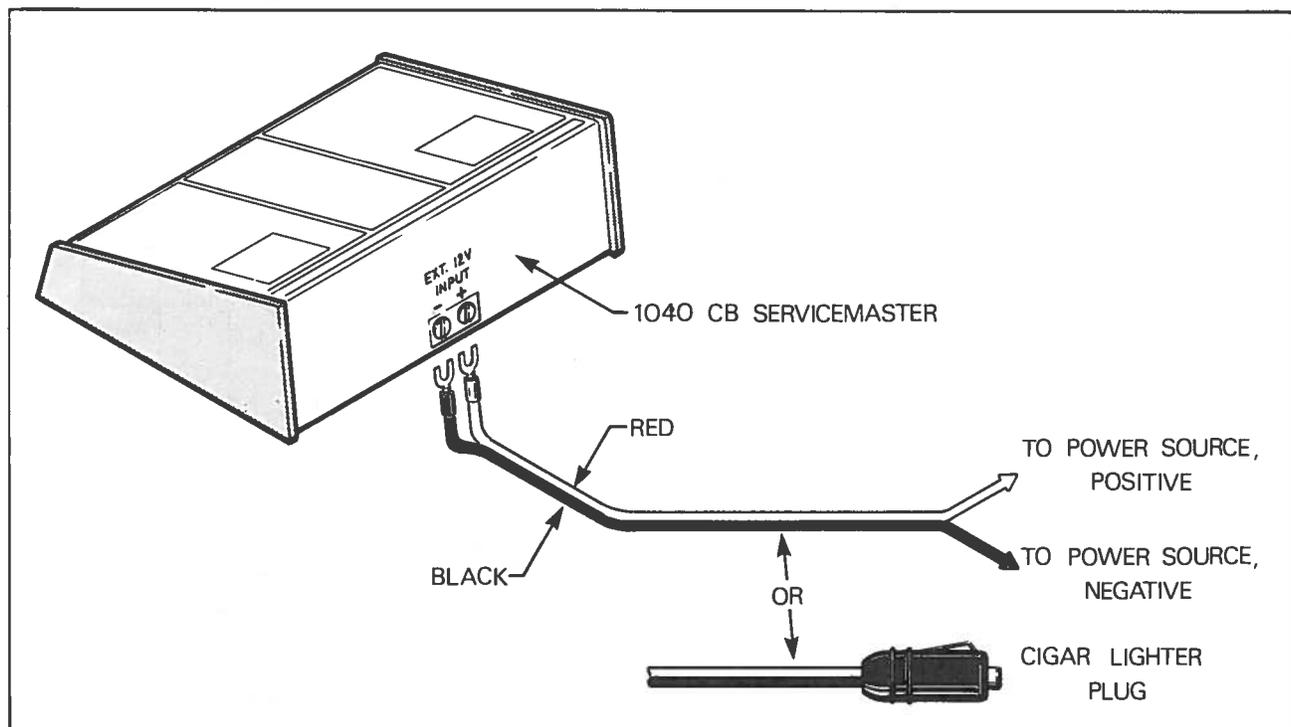


Fig. 6. Optional DC Power Connections

### TRANSMITTER RF POWER CHECK (Refer to Fig. 7)

This is normally the first transmitter check performed. It measures transmitter RF power to determine if it is normal. The check may be used for transceivers and transmitters operating in class D Citizen's Band service or any other AM or FM transceiver or transmitter in the approximate 27 MHz band with up to 100 watts RF output. For units with both AM and single sideband capability, this check should be performed in the AM mode before additional checks are performed in the SSB mode.

#### NOTICE

FCC regulations require that all checks, adjustments and repairs which affect transmitter power and frequency be performed only by or under the immediate supervision of persons holding a valid First or Second Class Radiotelephone License.

1. Hook up equipment in the basic test set-up shown in Fig. 5 and set all controls as instructed in INITIAL OPERATING PROCEDURE.
2. Set RANGE switch (15) to the 10W position for class D Citizen's Band transceivers or any other transmitters with a normal RF power of less than 10 watts. For transceivers and transmitters with normal RF power of 10 to 50 watts, select the 50W range. For transceivers and transmitters with normal RF power of 50 to 100 watts, select the 100W range.
3. Be sure the TRANSMITTER FUNCTION switch (16) is set to FWD (forward).
4. Be sure the RF LOAD switch (18) is set to INT (internal).
5. Be sure the RF POWER switch (19) is set to AVG (average).
6. For transceivers with both AM and SSB capability, select the AM mode. An FM transmitter may also be checked.
7. Set the transceiver to the first channel that is to be checked.