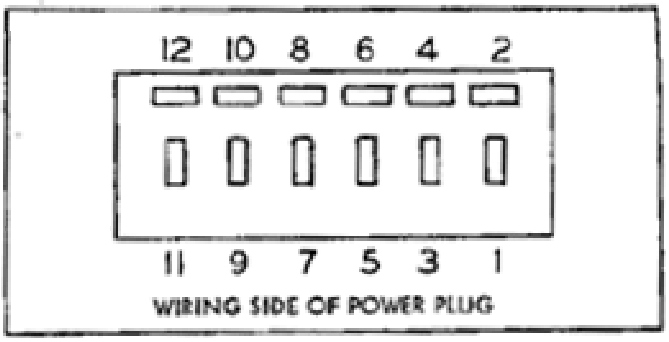
POWER CONNECTIONS

The model 910A Sidewinder will operate from the Gonset 901A, 902A, 911A, and the 912A power supplies. If difficulty is experienced when operating the Sidewinder from the early 901A power supplies due to marginal pull-in of the T/R relays, it may be corrected easily by connecting a 500 to 1000 mfd, 20 volt capacitor in parallel with C68. See schematic number 510-129 supplied with the 901A power supply. It is recommended that the new models (911A or 912A) be used with the 910A Sidewinder.

In the event that a power supply other than the above Gonset models is used, extreme caution is required, as damage could result from incorrect connections or voltages from power supplies other than Gonset units. The user should be familiar with the technicalities involved before using another supply.

Figure 4 illustrates the power connector as seen from the inside of the Sidewinder.



1. 12 v, Audio
2. 12 v, P. C. Card
3. Bias Voltage, -22.0 vdc
4. Filament Voltage
5. Screen Voltage, +200 vdc
6. B+ Voltage, +300 vdc
7. Spooker
8. T/R Relay
9. Power ON/OFF
10. Power ON/OFF
11. Ground
12. Spare

Figure 4

MOBILE NOISE SUPPRESSION

Equipment operating in this frequency range is highly vulnerable to interference caused by such things as ignition sparks, generator noise, static discharge from wheels, static drain from a moving vehicle, regulator noise, etc. In all cases an attempt should be made to identify the source of the interference before attempting to correct it. To aid in the proper identification of such interference, the chart in Figure 5 has been provided.

AUDIBLE CHARACTERISTIC	SOURCE	CHECK	SUPPRESSION
Popping Sound	Ignition	Noise varies with engine speed. Stops when ignition is switched off.	A. Use heavy copper grounding braid to bond each corner of the engine block to chassis ground. B. Install radio resistance wiring.
High Pitched Whine	Generator	Noise varies with engine speed and will continue when ignition is switched off until engine stops.	A. Install a .25 to .5 mfd coaxial capacitor at the generator in series with the armature lead. B. Install a hand wound choke in series with the generator field. *See Note.
Rasping Sound	Voltage Regulator	Arcing voltage regulator contacts.	A. Install a 0.25 to 0.5 mfd coaxial capacitor at the battery terminal in series with the battery lead and at the generator terminal in series with the armature lead.
Hissing Sound	Gauges	Disconnect one at a time until guilty gauge is found.	A. By-pass gauges at terminals with a 0.1 to 0.5 mfd capacitor.
Low Pitched Clicking Sound	Oil Sender	Noise varies with oil pressure, stabilizes at maximum oil pressure.	A. Install a 0.25 to 0.5 mfd capacitor from gauge lead terminal to chassis ground.
Irregular Popping Sound	Wheel Static	Noise stops when brakes are applied.	A. Install grounding brushes or springs under hub caps.
Regular Popping Sound	Tire Static	Noise is worse at 30-50 mph.	A. Put anti-static powder in tires.
All Types	Antenna Cable Ground	Ground connection at base of antenna.	A. Make firm mechanical and electrical ground for coaxial cable from the antenna.

Figure 5, MOBILE NOISE SUPPRESSION CHART

*CAUTION: Do not install bypass capacitor at the field terminal.