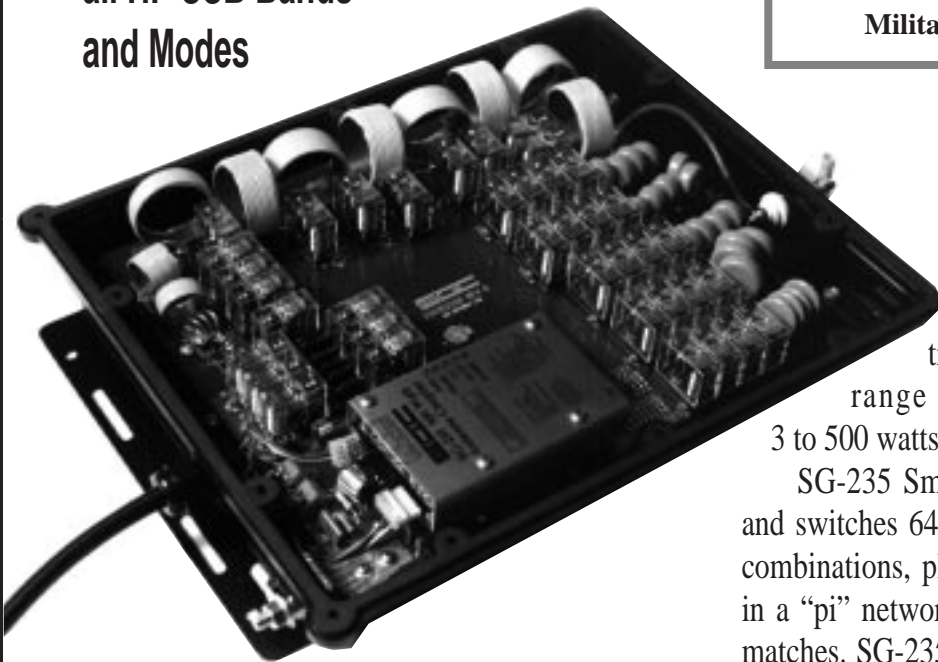


SG-235

500 watt Smartuner™

Automatic Antenna Coupler for
all HF-SSB Bands
and Modes



Smart Tuning—Now at 500 watts.

Now you can achieve perfect coupling of your 500-watt HF-SSB to your antenna.

Now you can **go mobile** at 500 watts.

The SG-235 Smartuner™ forms the perfect link with any 500-watt amplifier for high power performance.

The SG-235 Smartuner™ “intelligently” tunes any length antenna from 23 feet! No preliminary tuning or adjustment is required, and the SG-235

- Microprocessor Controlled, Precision, Automatic Antenna Tuning
- Non-Volatile Memory
- Waterproof for All Weather Conditions
- B.I.T.E. (Built-in Test Equipment) indicator
- 1.8 to 30 MHz Range
- 3 to 500 watts Input Power
- 10- ms Retuning Time
- Tunes from 23 ft. Antennas at Full Power
- For Marine, Aviation, Ham, and Para-Military Applications



will operate with any HF transceiver in the 1.8 to 30 MHz range and with output power from 3 to 500 watts.

SG-235 Smartuner™ automatically evaluates and switches 64 input and 32 output capacitance combinations, plus 256 inductance combinations in a “pi” network—over a half-million precision matches. SG-235 Smartuner™ then remembers the chosen frequency and tuning values and automatically reselects those values—in less than 10 ms, each time you select that frequency.

Flexibility is a key feature. It is available with a number of attractive options, including a shock mount for military and extreme applications, plus a 24 VDC option.

For maximum range, clarity, and flexibility, with just about any HF-SSB, the SG-235 Smartuner™ is your smartest choice.

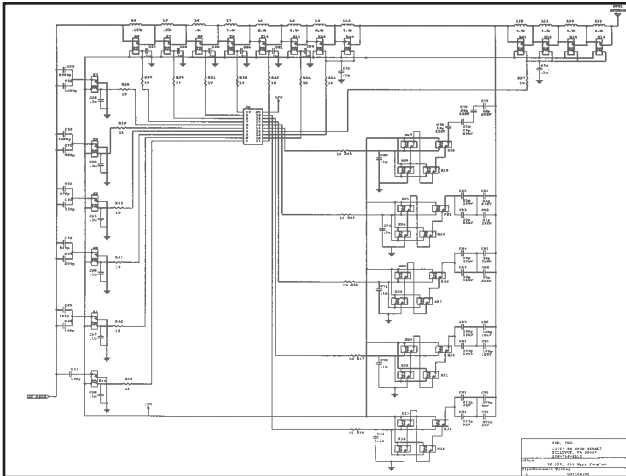
Cat. No. 54-15



The SGC Building 13737 S.E. 26th Street, Bellevue, WA 98005 USA
Box 3526, Bellevue, WA 98009 USA 425-746-6310 or 1-800-259-7331
FAX: 425-746-6384 E-mail: SGCMTG@aol.com Web site: <http://www.sgcworld.com>

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Intelligent Tuning



The SG-235 is designed for maximum flexibility. RF "pi" network has over a **half million** microprocessor combinations

Intelligent Installation Enhancements



QMS Automatic Antenna Coupler System.

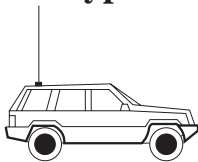
Special external mounting system for SG-235. Gives an incredible boost in receiving and transmitting range—between 3 and 20 dB gain! (Cat. No. 55-47)

SmartLock Option.

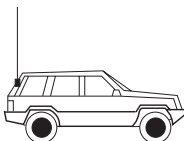
Provides two external controls for the SG-235: **Locking** function prevents re-tuning despite changing antenna loads (e.g., from passing trucks or from driving beneath an overpass); **Reset** function forces the SG-235 into the retune cycle until the signal is transmitted again or allows receiver/scan operation in a broadband antenna mode. (Catalog No. 54-63)



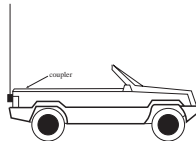
Typical SG-303 Mobile Antenna Installations



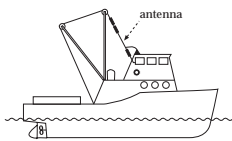
Correct Top Mount Antenna Location



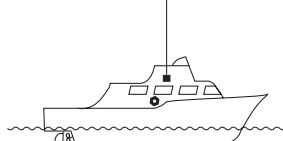
Correct Side Mount Antenna Location



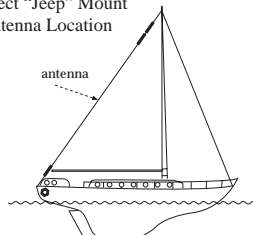
Correct "Jeep" Mount Antenna Location



Correct Workboat (Metal Bridge) Location



Correct Powerboat (Flybridge Cruiser) Location



Correct Sailboat (Sloop Rig) Location



No Compromise Communications

1-800-259-7331

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FAX: 425-746-6384 E-mail: SGCMKTG@aol.com Web site: <http://www.sgcworld.com>

SG-235

Specifications

HF Frequency Ranges	1.8 to 30MHz
Power Input Range:	3 to 500 watts (PEP)
Input Impedance Range:	45 to 55 ohms
VSWR:	Typical—less than 2:1
DC Input Requirement:	+13.6VDC
DC Operating Range:	+10.5 to 15 VDC
Input Current:	Average—9 amps
Random Set Times:	Typical—less than 2 seconds
Recurrent Set Times:	Typical— less than 10 milliseconds
Non-volatile Memory Addresses:	500
Antenna Length:	Min. length 23 ft., 3.5 to 30 MHz Min. length 50 ft., 1.8 to 30 MHz
Installation:	Any position
Operating Temperature:	-35° to +70°C
Environmental:	Waterproof at immersion of half meter, half hour
Size Overall:	16 D x 12 W x 3H inches 40.6DS x 30.5W x 7.6H centimeters
Weight:	8 pounds (3.5 kilos)
Case Construction:	Plastic ABS weatherproof case
Cable:	SGC special cable, 9 foot coaxial and two power wire input wires, RMT tune and Smartlock wire

