

# MAGNUM OMEGA FORCE S45 HP

## **DESCRIPTION:**

Magnum International (<http://www.rflimited.com>) recently introduced it's newest version of the Omega Force S45 HP. The new dimmable blue frequency/channel display is pleasant to the eyes and much easier to read than the previous yellow one. A dual mic plug (one on each side of the radio) gives you a choice of a 6 pin mic plug (original Magnum Mic) with up/down frequency control, or a standard 4 pin Cobra style mic on the other side. This radio is loaded with controls and options that leave the user in want for nothing! Features like "Receive Audio Tone", "Variable All Mode Talk Back", and "Turbo Digital Echo" set this radio apart from any other on the market.

This unit has a new MOSFET RF stage added to the rear heat sink that will produce well over 75 watts on AM with a minimal 1-2 watt carrier, and even more on SSB. The Amplifier module is a special version of the "PowerBand RFX-75" that many people are already familiar with. The circuit is specially designed for AM and SSB transmission.

The frequency coverage is much like a Ranger 2980 with the bands divided into segments ranging from 25.165 MHz to 29.699 MHz. The bands (A – J) can be switched quickly by pressing the "Call" button.

Like most Magnum type radios, the PLL circuitry is Microprocessor Controlled. The small jumper block inside the unit has four positions (CON 1 - CON 4). The placement of this jumper determines the operational Bands and Channels. This setting is called the CON setting.

## **SETTING THE CON MODE:**

**CON 1** - This setting is the default 10 Meter Only Mode, and Does Not cover the CB Frequencies!  
Please Note that the Repeater Offset Function - Only works in the CON 1 Mode.

**CON 2** - In this Mode the radio defaults to 10 Meters Only when it is Powered On.  
However, Pressing the FUNC & CALL Buttons for 3 Seconds will switch to the Fully Expanded Mode.

**CON 3** - This setting is the Fully Expanded Mode which covers 10 Bands (A - J).  
Pressing the CALL Button Momentarily will quickly switch Bands. (25.185 - 29.695 MHz)

**CON 4** - This Mode covers the CB Band Only. The Radio Powers ON as a regular CB Radio  
Showing Channels 1 - 40 on the Display - Frequency Coverage is 26.965 - 27.405 MHz  
The CALL Button functions as a CALL Button and has NO Effect on Frequency at all!

**Notes:** The RPT and SHIFT Buttons are pressed for setting the Repeater Offset Freq. (CON 1 ONLY)  
When setting the CON Mode, All DC Power Must Be Removed Before Moving The Jumper Plug.  
After the Jumper is moved, Press and Hold the Reset Button for approximately 10 Sec.  
to reset the Microprocessor.

