

BDA OPERATION

Refer to figure 3 for adjustment access location and label.

ALC (Automatic Level Control)

To minimize intermodulation products, each amplifier in the BDA contains an ALC feedback loop. The ALC circuit senses the output power and limits it to the factory preset level of +24 dBm.

ALC function is selected with an on/off toggle switch located on each amplifier and accessible via the adjustment access panels located on the sides of the BDA enclosure (Left, or “BASE” side is Downlink, right, or “MOBILE” side is Uplink). A red indicator lamp located on each amplifier illuminates when output power exceeds the ALC set point. The indicator is functional regardless of the position of the ALC switch.

Units are shipped with the ALC switch in the “ON” position.

MGC (Manual Gain Control)

BDA gain can be reduced by approximately 15 dB with screwdriver-adjustable potentiometers located on each amplifier. The potentiometers accept a 3/32” slotted screwdriver (provided), and are accessible via the adjustment access panels located on the sides of the BDA enclosure (Left, or “BASE” side is for Downlink, right, or “MOBILE” side is for Uplink).

When ALC operation is selected, the MGC serves as the “master”, controlling the gain, and lowering the effective ALC set point. **MGC cannot raise ALC set point above its factory preset level.**

If operation below the 24 dBm ALC set point is desired, BDA gain/output level can be reduced by turning the MGC potentiometer clockwise until the light goes off.

Operation of BDASMR1W60 at maximum gain with greater than -25 dBm average power incident on either BASE or MOBILE port can cause damage to the BDA.