

# *ERJ 145*

## RADIO MANAGEMENT UNIT (RMU)

NOT FOR REAL WORLD USE!



At startup and normal operation the RMU's screen is divided into five windows. These five windows allowing control over the COM, NAV, ATC/TCAS and the ADF systems

RMU is capable of presenting different other pages selected by the PGE button and the Line Select Button associated with the desired page accessing through the menu.

These are the:

### **-Memory pages**

The Memory page has two displays called First and Second Memory page. The first page shows the first 6 memory locations the second page show the memory locations 7 through 12. Both COM and NAV Memory pages are functionally identical.

### **-NAV backup page**

Includes the HIS, DME, NAV and ADF information

### **-ENGINE backup page**

Displays information normally presented on the EICAS. It is divided into two pages the first showing the engine indications and the second shows system indications and EICAS messages.

### **-Maintenance page**

This page shows test results depending upon the kind of the test being carried out.

### **Cross side operation**

The RMU has a feature called cross-side operating mode. In the cross-side operating mode the RMU controls the set of radios of the opposite side. Selecting this mode is accomplished by pressing the ½ button

### **Dimming**

By pressing the DIM button and using the Frequency Control Knobs on the RMU can the display visibility optimized.

### **COM operation**

The COM window has two frequency lines. The upper one displays the active frequency while the lower line displays the preset

frequency. Pressing the LSK next to a preset frequency will cause the yellow cursor box to move to that field. Now the preset frequency can be changed by using the Frequency Tuning Knobs. When the Knob is turned the label MEMORY will change to TEMP label indicating the new frequency is not stored in the memory. Storing the new frequency is accomplished by pushing the STO button. Placing the yellow cursor on the MEMORY label by pressing the LSK second time on the COM window will allow scrolling through the stored memory.

### **Direct COM tuning**

This mode is accomplished by pressing and holding the LSK besides the COM preset frequency line for more than 2 seconds. The yellow cursor box will allow direct COM tuning.

### **NAV operation**

Identical to the COM operation.

### **Transponder and TCAS operation**

The transponder operation is similar to the other radio equipment operation where the yellow cursor box needs to be moved to the desired function. This will allow the Frequency Tuning Knobs to change the ATC display. The outer knob sets the thousands and the hundred digits and the inner sets the tens and ones digits.

Pressing the LSK (third from bottom left) will move the cursor to the ATC/TCAS window allowing to set a new transponder mode.

The transponder operational modes are:

ATC ON - Replies on Mode S and A no altitude reporting

ATC ALL- Replies on Mode A, C and S with altitude reporting

TA ONLY-TCAS Advisory Mode is selected

TA/RA TCAS Traffic Advisory/Resolution Advisory Mode is selected