## TRANSPONDER AND TCAS



## **TRANSPONDER**

## **ATC Mode Selector Switch:**

STBY: Both XPDR are electrically supplied, but do not operate

ON: Selected XPDR operates in all modes

AUTO: in flight: like ON

on ground: Selected XPDR only operates in mode S (Selective aircraft interrogation mode)

### XPDR 1/2 Selector Switch:

Selected XPDR operates

#### **ALT RPTG Switch:**

ON: The XPDR sends barometric standard altitude data

OFF: No altitude data transmission

#### **IDENT Switch:**

Flight crew sends the aircraft identification signal

### **TCAS**

### **MODE Selector:**

 $TA/RA: TAs, \, RAs \, and \, proximate \, intruder \, are \, displayed \, if \, the \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, the \, XPDR \, is \, ALT \, RPTG \, switch \, is \, ON \, and \, ALT \,$ 

not in SBY

TA: TCAS will not show any RA. Only TAs

STBY: TCAS is on standby

### TRAFFIC Selector:

THRT: proximate and other intruders are displayed only if a TA or RA is present and between

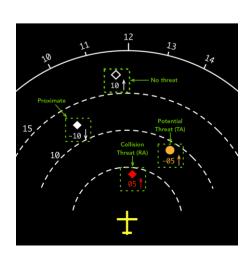
+-2700ft

ALL: proximate and other intruders are also displayed within +-2700ft

ABV: Same as ALL but within +9900ft and -2700ft BLW: Same as ALL but within -9900ft and +2700ft

white square not filled: other intruder white square filled: proximate intruder

amber circle: TA intruder red square: RA intruder



# **PROCEDURE OF TCAS RA:**

if TA occures first:

System: "TRAFFIC, TRAFFIC"

→ PF "TCAS I HAVE CONTROL"

### when RA occures:

System: e.g.: "CLIMB CLIMB" or "DESCEND DESCEND" etc

→ PF: "A/P OFF, FDs OFF" and follow the green on PFD

During TCAS RA, RA order may change, e.g.: "INCREASE DESCEND" or "DESCEND DESCEND NOW" etc



For Info: newer A320 generations have Autopilot TCAS