




Instrument Intercepting and Tracking

Step – by – Step

Ryan Roberts – CFI/CFII/MEI © 2004 Hal ozone.com – Rev. 1.0

	HSI	OBS	ADF
1.	Tune and Identify – Confirm it is the correct Morse code identifier		
2.	Q) Where Am I? <ul style="list-style-type: none"> ▪ Center CDI Needle with a FR indication ▪ Put the HB on Radial 		<ul style="list-style-type: none"> ▪ Read ADF Tail Brg FR ▪ Put the HB on Brg FR
3.	Q) Where Am I Going? <ul style="list-style-type: none"> ▪ VOR - Change 'Course TO' → 'Radial FR' (<i>If applicable</i>) ▪ Put HSI tail on Instructions 		<ul style="list-style-type: none"> ▪ 'Brg TO' → 'Brg FR' (<i>If applicable</i>) ▪ Put HSI tail on Instructions
4.	Determine Intercept Angle <ul style="list-style-type: none"> ▪ Determine difference between HB and HSI Tail 		
5.	Split Into 180s (Q–Which Side will we go to?) <ul style="list-style-type: none"> ▪ Toward the CDI Needle Deflection 		<ul style="list-style-type: none"> ▪ Toward Head of Current ADF Head from Intended/Imaginary Crs (white)
			
6.	Split Into 90s (Q – Inbound/TO or Outbound/FR?) <ul style="list-style-type: none"> ▪ In → Head of CDI Needle ▪ Out → Tail of CDI Needle 	<ul style="list-style-type: none"> ▪ In → Bottom of OBS ▪ Out → Top of OBS 	<ul style="list-style-type: none"> ▪ In → Head of ADF/HSI CDI Needle ▪ Out → Tail of ADF/HSI CDI Needle
7.	Double the Difference <ol style="list-style-type: none"> 1. Double the Intercept Angle [from Step 4] 2. Apply from Head/Tail towards the 90 [from Step 6] 3. Determine the Heading to fly 		
8.	Turn in the Proper Direction (<i>Double check steps 1-7; time permitting</i>) <ul style="list-style-type: none"> ▪ Least number of degrees for the turn ▪ Say direction (Cardinal heading (N,NE,E,etc), not left/right) 		
9.	Intercept and Track <ul style="list-style-type: none"> ▪ Priority → allow needle to center ▪ Turn and apply specific WCA to keep needle centered as necessary 		